Reliability a Tossup In E-voting Exit Poll

Technology causes chaos in some spots but few problems in others

The jury is still out on the nerformance of e-voting systems throughout the country in last week's midtern elections ac-

cording to officials and technical experts interviewed during and after the vote The prospect of widespread use of DREs or direct recording electronic machines, most of which are touch-screen systerms had caused one

possibility of fraud, backing or Post in the days ofter There day's elections, it remained unclear to what degree those force may been been realized There were scattered reports of technical or

alderedde concern about the

procedural problems with either registration or voting in Colorado. Texas, Florida, Utah F-votine pare 12

Protecting Data Becomes Top Security Priority for IT

Forme chiffe from network defenses to sensitive info

BY JANKUMAN VIJAYAN

Regulatory requirements and increasing consumer concerns about the exposure of personal information are making the addition of data-level security controls a top priority for IT managers, according to attendces at the Computer Security

Institute's annual conference Executives from companies here last week that after fo-

cusing for years on itsetalline technologies such as firewalls and intrusion-detection extems to better secure their networks, they are rushing to

provide stronger protections for the data in their systems "The data now matters above everything else," said John Ceraolo, director of infor-Data Security, page 64

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COMPUTERWORLD

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ONLINE EXCLUSIVE

Vol. 40 Iss. 46 NOV 13

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Reliability a Tossup In E-voting Exit Poll

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Data Security, page 6-4

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For most IT workers, pay raises have stalle

out at around 3 1% according to the nearly 15.000 who took part in Computerworld's 20th Annual Salary Survey, But for those with sought-after Web skills, employers are starting to loosen the nurse & strings



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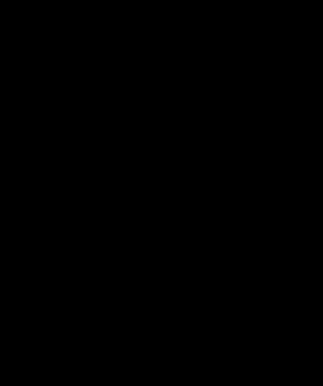
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Charts and Data Points: First

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OPINIONS

Companies are gaining enough user buy-in for their business intelligence systems, to make the

Sun follows through on its primise to make pieces of Java available to the open-source

A health care provider signs a \$300 million contract with Al catel for a conversed IP network.

Vilware gets more competition from Microsoft and open source virtualization vendors — and some of its users are glad

The top

Howe at an Australian TV
network is resigning following a
shift of H budgeting responsibility to the commany 6 140.

QBA: Sill Hill: a Microsoft ever, discusses the vendor's opensource plans and how craft sum of an agreement to share technical unfo with Sim helped shape its recent deal with Novell

Revin Kline, who heads the user group for Microsoft's SQI Server database, as a most companies have yet to make "a strong commitment" to the year old SQI Server 2005 release.

ONLINE

Windows Vista A to Z We've gathered Computerwork's

best Visia coverage from in digith hands on reviews to stones about the hall issues surrounding the OS. Check back often for updates. • www. computerworld.com/software.



10 Mark Hall reports on a sendor whose software could help companies send out bills that treat customers as more than an agree number.

26 Don Tennant recognizes only one way that chonce can play a role in determining how much 11 workers are paid, whether you were born made or female.

The Michael Gartenberg weighs the provand cons of Windows Vista from the perspective of 11

Bruce Heard Says you can a sold pertrain ranson notes from a ybercrimmals by deploying radius as a form.

Frank Hayes

supervisor who loaded like the tuture of 11. But they brought Kanser what appear to be sweethcort deals, coverups and bad publicity. INSIDE

10. 10.



Pay rases for most IT workers looked up and 3 Pioagain this year according to Computerworld's 20th Annual Salary Survey. But some with the fottest Web skilds snared above everage rases. Also find solicit compression in figures to work out for mote and fermals IT workers. One III caree expert says if the depanty self consideration componentation lases the feet of mote and soon expense model looke the feet of mote.

Opinion: If workers and corporate America recognize that they need each other but aren't certain that they've ready to truck again after being turned, says columnist Paul Glen.

Charts and Data Points: Find salary information for 30 IT politifies plus data broken out by region and company size. Also see how we contracted this way's survey.

Opinion: The frazen pib market is starting to melt says columnist Johanna Rothman. She offers advice for iff hinning managers starting to local

NLINE EXCLUSIVES

MORE MONEY, PLEASE.

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BE PART OF THE 2007 RESULTS

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AT DEADLINE

CIO Resigns From Kaiser Health Plan buy-in expand capabilities of tools, panel says

CON at Kaiser F Albertale Rose Tester — CIO The com tion is related to a non that criticised a unio operans Corp. relied out in 2000

Itah Man Pleads uilty in Piracy Case erator of a Web site that ors has pleaded quilty to one ant, said the U.S. Dans at I also City will be seen Feb. 23 in a Virginia fedi art. Knott faces five years in ling subscriber access to

oc Corp. and others. icrosoft to Releas ers Patches at fix flows in the Windows ting system and the any's XML payeer. S

ity experts said hackers have or this flaw will be fixed.

lotorola Buys Areless Tech Firm

torole Inc. has acreed to of wireless messaging, wid-security and data ac ets. Terms of the de ed to close early next year a cot disclosed. The acros n will be part of Motorcin's

BI Becoming Strategic Corporate Asset

IT must gain user DY HEATHER HAVEHSTEIN

USINESS intelligence from a tactical tool to a montania area as mon communication look to it so halo holster enterreise operations constitue to a namel of usors of the Business Objects SA user

conference here last week But making that shift reouires user huy-in and an ahility to offer RI comphilities to arcaring numbers of unchar the nanel members severel lim Young director of the information services erroun at Allstate Insurance Co. in

Business Objects Updates BI Suite

Union the new search canabi RIESS COLIECTS unvolled a de to its business intellemen he said, "you can ask a quar and an employ where it is - in a

The Business Objects XI Ro-lease 2 Productivity Suite, state to skip during the lint half of conect upons to acc hole and secrets regularity form daily tasks. Pricing was

add-on to minimg XI versions, said John Schwerz, CFD of Business cts. Do undated year reproved search capabilities will salion tooks and a factor aded. The new search cape les can be used to purform a ord search to quickly retrieve and dashboards, Schwerz said. Hel Singel, data was

project manager at Prett & Whit-ney Rocketdyne Inc. in Canaga A, Call, said the search car es could be a boon to the ny's 300 Business Objects rs, who often can't find date

Northbook III said his com near is looking to support its use of BI to employees who work directly with customers About 32 000 Allerste work. - electric use PI tools from Resiness Objects to detect

and analyze fraud determine prices, process claims and princes, process caums and manage the insurer's adjuster manage toe insure workforce he said Now Alberta is working to incornorate BI data into the business processes of empl-

one mbo communicate with customers through telephone customers through temple nemon Young exid

"We've not the data, (prof) we need to mine that data and get it into the bands of people who one make come most decisions about how to make sell our

products " he said "Historically we have done a great job know how it would work there recen't other initiations

and negotiate timelines."

tor opening projects

the department will roll out

al 2 500 sweet he added

"The dashboards allow

upper management to drill

down and see if a project is

in trouble," Chambers said.

They can see exactly what

is holding that project up.

affect those projects being

of data management at Emer-

gency Medical Associates

in Livingston, N.J., said the

delivered."

the deshboards to an addition

abase. Six survers or provehers nes the company - you can Rocketown, which man tures rockel engines, unes Busi-ness Objects software to analyz

engines are delivered on solve Jeff Pediction, person IT mones at Coverdor Wheeless I I C in Afte said users there are happy with od for the commit Reviews Objects version. "We're not as constartable with the new search

es correng out," he send Dan Vesset, an analyst at market research company EDC, said the new search tool is aimed at allowing Business Objects swen to find both El content tools. However, he noted that

search results only provide a view

- HEATHER HAVENSTEIN

Corporate BLUse 200-

> group practice of 250 cmer. of implementing BI somewhat ncy room physicians inv tactically New the concertus gency room physicians unvestto it to store to being together does from all the disparate ed in at tools attented. ports of the company The company uses the Alberta coined user burnin

> work to identify potential for its new RI plan after outdisease outbreaks based on tion together a "road show" to the symptoms of noticets who come into bornital emergency les how IT and business wears come unto nonprin circig "We needed to make sure

the group practice. "Without BI we couldn't have done it " Rothman said

enine on in the company that would be detailed by our proj-Nicholas Berg, senior ect," Young said, "We started to bring in key contacts from intelligence at Seagate Techdifferent development excurs nology LLC in Scotts Valley. Calif. said his company now Donelas Chambers, admin has three separate global istrator of the Office of IT production versions of Busi-Applications in the Geomin ness Objects software in place Department of Transportation including a system used at in Atlanta said 200 workers Maxtor Corp. prior to its acand managers at the agency quisition by Seagate in May. are currently using Business Objects dashboards to moni-

The company plans to replace the separate versions and run the new Release 2 of During the first part of 2007. Business Objects VI through out the company sometime Berg did suggest that Busi

suggest solutions for problems that the BI software discovers - an important feature [The BI tools] have made the for companies such as Seasate. folks at the DOT much more whose user base includes nower users and novices. aware of how . . . they directly "We pred tools [for] that user who doesn't know what the Jonathan Rothman, director

next step is . . . to be able to guide them through to som nmended actions." Bers:

ness Objects add guided analysis tools in a future version of the BI tool set Such tools





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IT SERVICES AND SOFTWARE ENTERPRISE NETWORKING AND COMPUTING SEMICONDUCTORS IMAGING AND DISPLAYS

Sun Set to Part With **Java's Source Code**

I learn' mactions mived: Some welcome access to code others fear code forking

A UN MICROSYSTEMS Inc. in Enirfey Va. said Sun's Inc this week is set onen-source move permaded to make rimificant chunks of the Isra lanenage freely available making ood on its promise in May to good on an produce in the

ennorogy. Sun CEO Jonathan Schwartz is closed to formally approprie the availability of the code today at the company's head ry at the company's near-Officials has supply said that norts of the lava Physicism O. A. A. C. Colon (MCT) and Jean Marform Micro Edition (IMF) will be available under the same GNU General Public License used for the opensource Linux operating system and the MaSOL database

Sun said it will still offer vercial licenses for lava. Harrishad mixed reactions to the move. Some said they welcomed the chance for addirional scrutiny of the source code. Others worried that the open-source shift could lead to the creation of incompatible to the creation of accompany

nances known to code forking Alan Flint, systems, applicaager at Richmond Wholesale. a food distributor based in Dishmond Calif, said Sun's decision may persuade his comnany to use the programming

nessee for the first time. *Onen emere is an area I am interested in pursuing . . . to have multiple options and not he locked into proprietary scenarios," he said. "Everybody in the world has to go to Microsoft because they are so pervasive. but sometimes you feel like you are painfully being forced to do something that is not in the best interest of the company."

Mayor Raichura, director of

information services at The

multivear deal. The UPMC operates 19 hospitals and about 400 doctors offices and other outpatient sites, and it has 43,000 workers - making it the largest employer in western Penn

most from Citoo Systems

early next year, and Alca-

tel said it expects to finish

deploying the new network

from four vendors.

Lone & Foster Companies the seal areas 6- to make to I was technology I one & Foster doesn't use lava because of its

cost and complexity, be exid "With law switsble as open with paya available as ope look at the fava option as a development platform." he said seconds Department Store LLC won't be affected much right now by the moss hacause the Reading Pachased company user other lavahased open-source tools like

Red Het Inc's IRoss applica-

tion server and BEA Syste machine for development said toe Poole manager of techninot recover. "The his impact will occur in the future when laws appointed the susure, was java specinescions won't be writing conjugations about

he more compatible" with non-Sun cofraces Book said The Submension dies tor of technology at Represions LLC in Farmington Hills. Mich said he was never among those lava users clamorine for Sun to open the course code. "I brus crocer

that this may fragment [Iaval. he said Subramaniam said that Bound One - a joint wenture of the finance arms of Daimler

Chamber &C Food Motor Co. General Motors Corp. and Toronta Motor Corn. — will likely remain a Issue shop Us mated that Pouts@no is novine ower from unine brea ture in favor of native XMI. John Muhlner, Sun's Inva

ME product marketing man-

in its pervice-oriented urrhits

near said the move to ones er, said the move to open rce means developers can taking the platform The lave components that

Con is making profibble or open source this week are the Iwa Compiler and the me java Computer and the Java HotSpot virtual machine which makes up the Java Software Development Kit in ISE and the core implementation of DAS found on most mobile bendere Additional piones of manusets. Administrating precess of under open-source licen later this war and in the

rine of 2007 Sun said. Michael Goulde on engles Michael Gouide, an analyst ed that even though the code will be multiple as onen source Com ... not an independent on control in marganism or Not only will Sun still manage the open source project (but) it still has control of the Issue Community Process * he said. "It is not a completely wendor-neutral effort.")

Pa. Health System Moves to Simplify Network Sprawl

The University of Pittsburgh Medical Center last week said it has signed a \$300 million contract with Alcatel to belt is develop on IP network that supports voice, data and video unications vis wired and wireless connections According to UPMC officials, the converged network

cubusale Dur BIN Monny the works that are based on equiphealth care system's vice presi dent of IT infrastructure said the UPMC's sprawling organi Inc. as well as myriad voice vation has left it with a natchcontema punning on switches work of more than 150 wice Work on the convergence switches and 30 voice-mail project is scheduled to start systems, plus 25 call centers.

> Consolidation Key As part of the convergen

project, UPMC officials hope within four years. But neither Alcatel nor the UPMC would to reduce the current setup to say how long the contract will a single voice-mail system and run for, describing it only as a one call center Honna said. He added that it isn't clear how many IP-based switches will have to be installed to support the new network. And although be predicted that the convergence work will result in lower networking costs,

Menne raid the core network will be based on technol nevally received for telementariosticas componies includios carries-class muters

and Dense Wave length Division Mubi. playing technology operating over fiber-optic cabling, "It will be very high performant - not what would renically see in an organization's net-

work, especially in health core" be eaid Money Landman the UPMC's vice president of but

ness development and IT onerations, said Alcatel best out rival wendors such as Nortel Networks Corn and Avava Inc partly because the health care system felt that Alcatel would act more as a long-term partner than as a traditional vendor

For example, the deal calls for the UPMC and Alcatel to each invest \$25 million in a joint venture that will devel health care applications and

initially will focus on products that enable health care nonviders, emergency response workers and other parties to share information during public-safety crises, such as a condemic or temperar attack The second of the second of the embraced the idea of suppl ing a hybrid network of divisal analog and IP-based phones.

comething Cisco couldn't do Brian Riggs, an analyst at Current Analysis Inc. in Sterline Va said the HPMC projoct gives Paris-based Alcasel a hie foothold in the U.S., where

it has etruceled to win custom ers for many years "The LIPMC told me then didn't want to deal with mul tiple vendors," Riggs said, "But to have an organization that's ripping out Cisco and replach's a lot of trust in Alcatel.

ing it with Alcatel is a big deal The UPMC has already installed several thousand wire less access points, and that amount is expected to grow to about 30,000 as part of the convergence project.

FOR MARRIOTT, WHAT IMPROVES A GUEST'S EXPERIENCE LONG BEFORE CHECK-IN?



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to make quests feel welcome inno before they set foot in the lobby. The challenge handle reservations for nearly 2,800 hotels and ownership resorts worldwide by providing seamless connectivity for Marriott Global Reservation Sales and Customer Care locations and Marriott.com. The solution: Dynamic Networking from the new AT&T. The MPLS-based IP network handles 40 million customer care calls annually in support of

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The World According to Donn's

The World According

A contingency for our contingency. When the unexpected hits when the storm comes,

ywarid uiso

W-

Dynamic Networking from the new AT&

Action V Defeat

of Corp is in when Action Control est could allow an offsetor to de control a co

w critical, but Ma ed only firett The understability unbirth in earl raine Park / W CD Sandra Dark 7 We Server 2003 and Windows

Seeder 15 Sun To Food April 24

colle Corn said it will stee to ing security and stability fuse the occurrence Firefer 1 ft our on Anni 24. The come de to Firefer 1.5.0.8 by that a. The new version inch we that will executely ailow Mazilla to push out Version 2 of the browser via Firefex's auto-matic undate machinism.

P Charges InkTec ith Patent Breach

ett-Packard Co. hos Med a int against the Serman ng HP's printer ink patents. rt, alleges that ink loced, do it yourself cartri marries unit of HP's ince

nd printing grown EA Adds Bundled OA Offering

MEA Systems Inc., has aned its first package of nic Service Rus 2.6 tor tool, BEA did not dis-

cies for the nackage.





Documents Tell Your Customers . . .

where the short distance and the design was trade Chris Stone CEO of StreamServe Inc. laments that IT managers are missing an opportunity to belotheir companies improve customer relations every time invoices lease documents and other papers are printed

user interface will ship next

month Stone says. It will also

support applications built on

top of SOL Server, DR2 SAP

hecoming a vital . . .

.. business service. So says

Andy Howard, director of

Inc. He claims that compa-

nies are ratcheting up their

such as monitoring offshore

oil platforms or enabling

CFOs to explain Page One

scandals to their employees

To belo. VBrick in the first

quarter plans to shin a video

The VBrick appliance can digitize video feeds for WAN transmission

technology

l ive video is

'It's amazine how much business rate rionship mail is junk mail. Stone rate Take a peck at most hills

from his conporations, and

you'll see that the nanomork is designed for the business and not its customers, he contends, "We're just a number on an invoice Stone says. But be claims that his company's Persuasion software lets you design readable customer documents and customize them for people other than your CFO. You can

even add marketing materials

such as info about new cars for mercuran where were leases are expiring. A transion of Day

sussion that supports Web has a revised

ancoder appliance with intograted management software fracti management software from Media Publisher INC. AP and at somete locations the anoliance can digitize, compress and decompress video -1- f-- WAN transmissions Madia Bablishes CEO Bad Siedla Fublisher CEO KO benederate of example to DCs proagcasts of events to PCs that having large-scale exents is the solden challen "he saw The most is 100,000-thus seats. That's perty challenging." admits Howard — especially

over a WAN The history of USB norts on your ...

Later this week SecureWood SA will release a security willity called Device Scanner to partners who sell its endpoint security tools. Although a visit from a value added marelles /VA D\ may not be the most charming part of your day has ing able to run Device Scanner on war network may just win was over Dou't isheratein So. overWeen's II C bread direct

NorWeaver and IRM's SileNee tor of product marketing says the software can document the history of everything that has been connected to your Windows PCs and servers vis USB ports as well as FireWire and wireless links. You'll learn marketing at VBrick Systems who has been attaching what and how often which could help you find potential security policy problems. Best of use of video for applications all, the utility is free - except for the time you have to spend with the VAR

Get free reporting tools for IBM's free database. No VAR

drop-ins are necessary with IntelliView Designer and Report Analyzer a pair of free reportize tools

developed by Synaptris Inc. for IPAC's from DR2 Express-C FIPS 201 specs, 1

database Bester still "there's no conjusting no coding claims Synantris CEO Madan Kumar "Fuerything is droe and drop " According to Fig. man way can easily design

graphical ~ data-driven concerts with un to a mil. lion may of data Europ tels charges for training a coftware development his and

a portal version of IntelliView But if the tools are so ever to use, you may not need those extras. The software is in bets now and is schoolaled for concept release next month

Lonical and physical security meet

... in the balls of govern most federal avencies scram ble to comply with a smart ID and dispative issued by Drag ident Bush in 2004, vendors each as Theo International Ltd. stand ready to help. Peter Boriskin, director of product management for access contool at Theory court has commone next month clans to ship Isva-based personal identity perification (DIV) cande that many the Codern Linformation Processing Standard (FIPS) 201. Asencies need to issue PIV cards containing digital certificates and biometric



by September 2006 in order to secure access to IT government

buildings, Tyco's cards will do that, working with the company's Secure 9000 event management system, Boriskin says. The combined offering is due on Dec. 22, ahead of a lanuary deadline for fielding PIV systems that meet the

The Highly Reliable Times

VOLUME 1 - ISSUE

Windows Server 2003

LONDON STOCK EXCHANGE CHOOSES WINDOWS OVER LINUX FOR RELIABILITY

Reliability Is Key in the "World's Capital Market"

By MICHAEL BETTENDOR

LONDON, Oct. 2006 –
When an IT system mass
process 15 million real-time
manages per day, with peaks
at 2,000 messages per second

to 2,800 monages per secontrees one of second of determinations. That's the present the Landon Stork Exchangfaced when building lariotec the Exchange's real-tim stock-ticker information de livery system.

cology systems. "We tooked at a number of different platforms for our Technology Roadmap, and we lined up nor business apparements with the completions of those

platforms, and Windows Server was the clear choice." In Louisi's view, long term reliability is a function of a solid relationship: "We

could deliver the kind of mission-critical technology that we needed, and we fal hillionouth delivered just that. For the full Lemins Steel Backenge case study, plus other case studies and half-pendent research findings on the satisfability of Windows

BREAKING NEWS:

.comen Stock extrange a teriord Reliability

Losler, Chief Information Officer of the Com-

THE HEADQUEST CONT.

RRIFFS

MTP Files I mesuit Against Palm

NTD has filed a natural infris nt lawsuit against Palm le-The suit is similar to an perior one that the patent-helding from parent reposuren en skotton et maarke skut desser 1964'er reperty total down for C-bb described the reports of machine malnon, moto or a vargered 19000's rt. alleges that Palm je swise functions which she HTP technology in its mobile said worse instant and

www.com e-mail covices. It seeks to e-ten Paim from selling and coworker errors so sup Part from selling an ecution such products. In Ma Helly Issobson on ROM agreed to pay \$812.5 mil to cottle MTE's natest claim a nonprofit election Office '07 Beleased in Berkeley, Calif. To Manufacturers

soft Corp. has released the with e-voting machines eterine Customers in were misleading do and the U.S. can start "Although I beard reports des Office 2007 on that for the most part things lec. 1, one day after the com-serv plans to officially launch went smoothly, that doesn't seem to be the experience of had solds alone with many voters - particularly

the good

es Vieta and the Funk ness at an execut in How York Duffield Firm Unwils

First FDO Suite day Inc., PeopleSoft or a has remailed the first per planned on-demand E os. The new Workship Ma ad at two course -Keen Selburra Inc. and Ri to her a bistari w. Workday plans to bring out h-obware.

resource and revenue m ment software next year AD Closes SA SA

lercury Acquisiti nding its offer four the commission in \$4 K halls se of Morcury Into p. Moreory is now a wholly and HP subsidiary, HP will u ed its plans for Morocry's appl

Continued from page I F-voting

and Denneybrania For example, some early voter in Florida's Broward voters in riorida's browning and Maint-Dade countries the touch comes must me to the touch-screen systems to disputy the candidates they Florida Consetury of State Con

caused mostly by noll dissertor of Voter Action. tended that the corb removes of few problems

in Maryland, Proncylyania. Elorida Obio Colorado San Diego County and elsewhere." "Resuling through these renorte mally does give a trans-

view of the voting experience for many " Jacobson added For instance in Ohio 43 of Cuyahoga County's 573 polling places had machine problems that affected unters lost week according to Alan Melamed a spokesman for the county's board of elections. At eight of those sites, voters had to use paper ballots because of faulty

"No Big Deal" Joseph Demma, chief of e-W for Utah Lt. Gov. Gary Hebert, whose office oversees elec-

tions in that state, said voters in Utah County encountered some problems with Diebold Election Systems TSX touchscreen systems during last mask's election

He said that delays in prenaring encoders, which program specific ballots, caused some machines to be unavailable at the start of voting.

Hamman Dames and haman "no his deal" noting that neono nig desir, noting that peomenhines used pence bellete machines used paper paner.

unto the muc there were no second of signif there were no reports of signif could tip a major race accordcount tip a major race, acco mg to out this and e-rocing races in several states

Several States. Uneil all secults are ------and the performance of a working hardware is more completely sesessed it's difficult to index how well the DRF looke non men one to held up, said several observers Flortion Data Services Inc. a consultine firm in Washington.

projected that as many Positive Perspective as 38% of registered vot-Despite a few glitches non on comes the country could use the touch-screen systems election officials in several election omciais in several states, including Texas, Marythe table to the state of

"What we do know from trhe land Florida Utah and Alarka election) is that the rollout of and after the election that the the new systems represented electronic voting pear in their on encernous change for many etates morked mall officials and poll workers — in many cases in a last-minute mark a said bestin I mist soon

"Overall, (the e-voting procend was a buse success in Utah "caid Damma "We are

annuare to be low nationwide

appears to ne low nationwi

ne a result

Overall, [the e-voting process] was a huge success in Utah. We are extremely nleased

ad for the democracy prop emely oksared " set for the democracy program In the days after the electice at the New York Hairen tion and days after the circ tice at the New 10 chines were unheat about the I make said that while the nurformance of their products performance of their product Devil card that where the

technology will high maken it should be "Our customers did a super *Many provincts were simply ioh" said a snokeswoman unnounced to deal with sen for Sequoia Voting Systems vicing the number of voters arriving at the nolls "he said. hased maker of optical-scan The user experience suffered and DRF machines claims a nationwide installed have of come 100 000 units *As we predicted things went

ers are setting used to the

emonther this November than they did in the primaries learlier this war because the officials not workers and you one have had more exposure to them "she said DRE critic and bloomer Brad

Friedman, founder of voter acrivist even Veluet Revolution Continued on poor 14





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'Vote Flipping' Is Real, but Its Cause Is the Subject of Debate

Some blame machinge: othere

eav it's voter error

EFORE AND during last week's midtern elecione reports emerged rices, reports eme - where a voter selects a date using e-voting hardware and the machine counts

the vote for another candidate - had occurred in some states Eos avamalo susan in both Broward and nearby Miami-Dade County in Florida had complained of vote flipping during early voting, though local elections officials assured the public that no unter seem

changed. Such problems have been reorted in ITS elections since 2004 when states started a much to use electronic voting machines. The snal of e-voting was to improve the securacy of elections. Instead, for many waters, the change has prompt. ad evenisions that some som? being correctly counted.

Desnite e-voting critics' fears that yote flipping is caused by flaws in the machines, others say that such user error machine calibra tion problems or other factors On problems or other tach uter science professor David

puter science professor David 1. Dill. who founded the nonprofe Verified Voting Econds. prom vermed voting round both based in San Francisco. last week called for imperiors tions to determine the course of vote-flipping incidents. *Boorde have been way two

quick to diagnose the problem " Dill said. "It could be " calibration problem with touch screens, but I'm not sure that anyone really knows because no one's looked at it 1 forte and all the board for two wars is speculation Dill rejected one theory:

that the problem is a conspir --- to defraud waters of their votes and eige the election to the opposition Once a voter nicks a candidate, a review screen shows who they wated for "It reams to me if you were wouldn't show (the hallot) to the water "he said

Dill said the problem could he caused by voter error, perhave by accidentally touching a screen and erroneously mak ing a selection. He supposted



that a namel of experts be voters often try to drag a finger

The fundamental problem

with any touch screen is

scenes a selection on touch

tapoing, "Vote flipping is a

technical flow he said

user-interface problem * not a

Machine calibration can

maculine calibration ca

units are sensitive to incuts

beend on a weer's beight and

other factors, he said Better

machine designs and simpler

would beln fix any problems

said Selker an associate pro-

faceor of media arts and sole

more at MET who has done

extensive research on product

durien and human interfaces

protest relative processes

that calibration matters that

annie of touch matters

formed to investigate the issue and determine how to fix now problems and set fixes to votine officials

Contribution Exctors

Ted Selker condinector of the Motion Technology Deplect heine conducted by the California Institute of Technology and MIT has one explanation for much incidents; closes; motors Experiments by the research on have found that waters incompathy choose a candidate - shale bellete see in 90 since even under laboratory settings People are just sloopy and

make mistakes," Selker said. Though voters may believe such amblems are caused by e-voting machines. Selker said the actual cause may be simply how voters use e-voting hardware. For example, he said

Nevertheless, he said he

rity measures. (See "Critics

Avi Rubin, a professor of commuter science at Johns Marking University in Balti

ore and director of ACCU-PATE an election research conter said the only way to be safe from yote flipping worked flawlessly" in the sen-Bruce Funk, the former elec-

tions director for Emery County, Utah, and an outins opposed to the use of spoken critic of touch-screen DREs because he believes that they still lack adequate secu-Funk called for improved audits of election results and

Solit on Whether to Abandon said that paper ballots should he issued to people who request them

"It's [the] 2008 [election] that worries me the most," he said, adding that the apparent lack of problems in last week's election "only lessens the rish. lic concern over the real security problem that still exists."

Computerworld's Todd P Weise contributed to this story.

is to have paper records of as to have paper records o worry is that we cannot over ser conclusionly whether or say conclusively whether of software elitches tointed or sortware ginenes, tainted code, machine rigging or othe money he said

Danes monds also allow se counts in the case of a discount and seconds Rubin noted adding that "without them, mounts Dan Wallach an associate

professor of computer science at Dice I beinessitz and an associate director of ACCU-RATE, said vote flipping has been a recurrent problem in seem a recurrent process in ecreans that are designed for he blamed on electronic voting machines. He blamed the

problem mostly on calibration "The fundamental need with any touch screen is that calibration matters angle of touch matters," Wallach said Different people even use diffemont parts of their femores to touch the economy he said The only way to fix the problem. he suggested is to increase the size of candidate relaction buttons and place them further

sport on the screen, so "if you miss one button wee're not likely to touch another one." A spokeswoman for e-voting machine worder Segueis Voting Systems Inc. said vote filoning is caused by human or procedural error, not by e-voting muchines, *Some times the machines need to he calibrated or recalibrated

she said. "Machines in and of themselves do not file votes." E-voting machines are far auditable than the mechanical lever-operated voting machines and other systems they replaced the snokes contended. She called voteflipping concerns a "conspir

acy theory from activists and bloggers. A spokesman at e-voting equipment vendor Diebold Election Systems also said that e-voting machines don't cause vote flipping, "It's not a problem" he said "It doesn't evist This again falls into the 'what if scenario."

Continued from page 12 E-voting

said that e-voting machine breakdowns forced the use of paper ballots in many locations seroes the IIS For instance, in Denver,

problems with homegrown e-mail books which control access to machines, forced voters to use paper ballots for a period in the morning. The problem prompted the Colorado Democratic Party to unsuccessfully seek a two-hour extension to polling hours in Denver District Court

Meanwhile, Avi Rubin, an elections index in Maryland's Baltimore County and a professor of commuter science at Johns Hopkins University, said the performance of e-voting technology in his precinct had immercond considerably since the September primary.

In last week's election. Rubin said there was only one serious glitch in a single Diebold TS touch-screen votine machine in his precinct. In a blog on his Web site, Rubin noted that the e-poll books used with the Diebold machines by the precinct, which had caused considerable nephlems during the primary.

DREs," pose 12.) Despite the apparent lack of major problems last week e-voting critics urged that the technology continue to be closely monitored. This was 's serveing by

media outlets, which detailed notential problems, may have headed off backing attempts that could have affected the results of a major race, said

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VMware Users Open To More Competition

Rivals pushing virtualization vendor to be more aggressive IT evers say

AND AND FORM MANCE of the server but force increasing the set faces increasing and open-source rivals Proof of that near in swideness last week at VMware Inc.'s own user conference where com nations had booths and Microsoft's virtualization software handed out to attendeer

Alebanek some ment men surreised by VMware's disnless of openness to its rivals at VMuseld 2006 the competition is availed according to at tenders such as David Frend a senior custome anabust for the Los Angeles city government's

finance department As a result of the competi tive pressure. VMware is "outtine much micker at releasing upgrades," said Freed, who also thinks rival offerings are foecing VMware to be more

thing for lusered " he said VMworld draw shows 2000 attendees, and users and one. house of the conference served that VMmare is well about of its competitors in offerior v96 wister-lization software with sophisticated functionalis-

serversion about decreion

nrices and adding features

But that doesn't mean corne rate IT managers are ignoring the selection to the FMC Comenheidiare's products Robert Hopes, an IT man-

over or Safeco Corn, snoke at VMsancki shout the Scattle-

Micmenft is going to want to compete, and so is XenSource Right now, it doesn't look

like they can. DERMIS ROBBISON, TECHNICAL INFRASTRUCTURE MANAGER GENEX

of VMware technology for director recovery respected

within its IT operation, which includes about \$ 600 servers *We like VM ware. It's defe *Competition is doing a good nisely meeting our needs right now" Hones said after his talk But Honne wided that he will come in Theel connection and continue to evaluate rival

products against VMware's. ------- administrator at the University of Missouri's main communic Columbia sold be also likes VMware's software But he's willing to consider Yes Source Inc & onen-course technology which he said has annual support costs that are only about one-third as much only about one-time as assess

chean encueh that it's worth looking at "Biomutaff said Conex Services Inc. a medical management firm in Warne Da is nilotine VMware's tools in advance of a server consolidation project

a server consonuation p "Microsoft is sping to want to compete and so is Xen-Source * earl Dennis Robin.

policy features, which would

allow the company to identify

expensive storage. He said be's

also interested in the new year.

sion's support for the Centers

Interrsting Painfinity with

Content makes to ton of some

arrays installed at his firm

older data and port it to less-

---son, a tectunical milastrocture manager at General region on

Monotheless Rebisson said Nonetheless, Robinson san bake-off" between VMware and Missough before a final and here desiring it made

Contract les contracts Cont Claunch said that VMware's fortune nemerous amounth mill come from virtualization man answert and configuration agement and configuration becaming that amide the underlyine virtualization

VMware's approach. Claunch said, is to "build this momentum amund virtual. iration - man if some of it's from Year and Difference 6'vi

Victoral Server — and get con Virtual Server — and get courprompert the part where the

ement, one part was a ... lov Hockins a systems engl Jay Haskins, a system engr Inc. in Seartle sold the omice line has a wery good reason to

consider virtualization. The mader virtualization: 1 mc amount of space for set Holland America is testing V Marro's polymers Harbins eaid But be also stopped by

said. But he also stopped by Asked shour VMsvare's deci rion to allow its contra display their wares. Hoskins printed and said it was a prothing "because you can at les hom other outlines "A

Virtualization Turns Un Political Heat for IT and Rusiness Licers

CELTRES was one of the hol pics at VMworld 2005, but the est week's electrons, instead, if

EMC Broadens Its File Virtualization Canabilities ested in Version 7.0 for its new

FMC Corn, today plans to un well a new version of its Rain. finity file virtualization appli ance with undated software that offers better integration with the company's Centers

fixed-data storage array. Version 70 of Rainfinity also features a new file manage. ment application, said lack Norris, the company's director

of virtualization marketine. Bill Fleming, senior systems administrator at Johns Hookins University's Applied Physics Laboratory in itimore, beta-tested the appliance and said the new fileit more robust. The lab is using

it in a project to migrate data from four-year-old Dell storoge devices to EMC Clariton anrays, be said.

Fleming said the policy management feature in Pain finity 7.0 is being used to auto-

mate the process of archiving the lab's 300TR of data based on how recently information has been accessed by users. An IT manager at a San Francisco-based retailer, who asked that be and his company not be named, used the previous version of Painfinity to migrate STB of data from two Network Appliance Inc. filers to an EMC Celerra IP storage

array and called it "a lifesaver." The manager said he's inter-

upgrade for \$12,000 #

because it creates a defined storage tier between primary and archived storage, said Tony Asaro, an analyst at Enterrorise Strategy Group Inc. Having tools that can move the data is also critical, be said The appliance is scheduled to ship today. Pricing starts at \$93,000; existing users can

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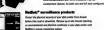
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is what's next for color

Dual-Mode Canability Unites Wi-Fi, Cell Networks

As wireless LANs continue to As wiresess LANS continue to speed through corporate sites. special turouga corporate sites mongaes and reseased a new several vendors are moving to most deal-mode phone handcan support both Wi-Fi and

can support both wi-ri and "We'd be quite interested in that capability — to have a Wi-Fi (nandset) work as a discourse of automob assessment WakeMed Health & Hosnitals

in Raleigh, N.C. The medical contex alreads has about 650 Spectral ink mas about 650 Spectral.mk TOTAL SAMUSCUS USCU DY HUI Araba Wireless Networks Inc., along with about 500 separate cell phones, it would he valuable to have one phone that could work over both networks mainly for the commnience of users. Tuman said WakeMed plans to hav Ara-

he cofesses that's expected to he maileble easts next year that can support dual-mode phones running between Wi-Fi and running between Wi-ri and software will run on a new Araba 6000 Mobility Control lar curitoh that will be installed later this month at the health care company, Tuman said. Avobo last mask upweiled

a product road map that inchides plans for adding our port for multiple networks to its Mobile Voice Continuity software The software is slatad to be wailable in the first quarter of 2007, said Aruba er Keerti Melkote

Seeina Results WakeMed has 600 access

points spread throughout 2 miltion source feet of space in its facilities, along with nine Aru-

ha Mobility Controller switches The medical center also wants to set up radio frequency identification technology throughout the medical center that will be supported by its existing

Wi.Fi network Tuman said Already, the voice-over-wireless canability belos nurses better maintain contact with their patients, according to Tuman. It's working well," he said, "It gives nurses faster response to calls. Nurses like the flexibility

overs with the addition of a of not being tethered." Meanwhile, Symbol Tech-Meanwhile, Symbol Tech

coffware module a crossceri soid The new PECTOO DE said. The new resource as Siemens Communications

Inc. plans to seld similer conhilling to its Hillsth product binnes to its Hirach product a company spokesman said

make substance the sket one switched through a Wi-Fi net. switched through a wi-ri network and then onto a wirein company spokesman sasu. Paul DeBeasi, an analyst at dors call the dual-mode hand-Burton Group, said such dualcour can the duar-mode hand commences be said to



APC Buy Puts More Power in Schneider's Hands

BY PATRICK THIBODEAU
The planned acquisition of
American Power Conversion
Corp. by Schneider Electric

dors that now sell competing backup power devices for data son ric although Schneider ric has only a small share of that en-market in the U.S. It's too soon to say whether customers of either company can expect product line consolidations as a result of the \$6.1 billion deal, according to APC spokesman Aaron Davis. Nonetheless, Davis said APC officials have been reaching out to users since the deal's announcement two weeks ago, telling them that the West Kinston, B. Lissand company

will still be able to meet their needs. 'One of our priorities is to make our transition to new ownership smooth and seam-

But Soth Mitchell, infrastructure team leader at Shumberland Inc. in Little Canada. Minn., said he thinks the com-

will be a difficult fit.
Mitchell uses APC's uninterruptible power supply
products and said he has
experience with the offerings

products and said he has experience with the offerings of Schneider's MGE UPS Systems unit as well. "I don't see a lot of posi-

"I don't see a lot of positives in the short term," said Mitchell, whose company operates more than 100 farniture stores in 10 states. "It might look nice on a bulance sheet. But perting two ferce competitors to integrate their highly contrasted ideologies to produce a cohesive set of products and services seems like a bit rask!

Potential Advantages

On the other hand, Vishal Sapru, an analyst at Frost & Sullivan Ltd. who focuses on the backup power market, said the acquisition should benefit APC's customers by giving them improved access to Schneider's line of UPS products.

The deal will give Schneider the top spot in the worldwide market for backup power devices, according to Sapru. He said that APC controls 28% of the market in North America, twice as much as its closest competitor. Enton Corp.

competitor, Eston Corp.
France-based Schneider's
MGE unit is stronger in Europe than it is in North America, where its market share
is only between 2% and 3%,

Sapru added:
Schneider said it expects to
complete the all-cash acquisition in next year's first quarter.
APC, which also sells cooling
systems and other data conter
products, earned \$45.1 million
on revenue of \$62.3 million in
this year's third quarter.

But Schneider said that APC's profit margins have been burt by the "significant investments" it has been making in large UPS systems.



GLOBALDISPATCHES

IT Exec to Quit Network After Shift in Budgeting

PYRHORT, AUSTRALIA

ESTANT (WORK, LTD, a television network operator and magazine publisher based here is losing its top technology executive in the midot of a move to transfer IT budgeting responsibility to its chief financial officer.

A spoossman to see a revent revenue confirmed has week that CHO Peter Lewis has taken over direct responsibility for the company's LF budget.

Meanwhile, Steven Longo, general manager of group LF services as Seven Network, confirmed that he will beauchis job next month. Longo declined to the confirment of the mean of the confirment of the part of

company's II organization.

His planned exit follows the resignation earlier this year of Peter Whitford, who left his sobasi information systems manager after more than 20 years in Seven Network.

The company spokesman stid IT

Secon Network.

The company spokesman stid FT operations will be managed by the head of its broadcast engineering unit. The spokesman down played the shift in budget responsibility, saying there are no LL restructuring or costs.

The total number of

e no H restricturing or civi iting plans. The word structure is too grand a rm, he said. H has alnes been part of broad.

and engineering.

In accuracy of 275
It is conducted this scar by the Australian objuins of 10, compares and source publication only about one-third or the respondents and that they reported

their companies instead of to the CDO.

UNIONA ROSS
TOMOSTRADOR TRANSPARIA

India OKs Yahoo's Internet Phone Plans

BENGALURU, INDIA

Arrow De Lost week and it has been premission by India's national government to offer Internet telephon seem per treasure.

ers in the country

ACILITY also plans to introduce set of Web-based services, including

set of Web-based services, meluding Internet telephony and instant messaging, in the Indian market, according An International IT News Digest

to a spokesman for AOI India. The

but he wouldn't disclose a date for launching the services. Yahose is creating a new company called Yahoo Internet Communications India to offer its telephony serva-

called Valuos Internet Communications India to offer in telephony services, a spoke-woman Stid. The telephony operation will be separate from the company's existing Valuos India subsolitary in Hengahuru, which formerly

was known as Bangalow.

Internet telephony has become a potentially large source of revenue because of the rapid growth of Web use in India, the Yahoo spoke woman said.

Veterans Agency Plans To Redesign Web Site

SYDNEY, AUSTRALIA

III ALS HALLAN Department of
Vertrans' Affairs is seeking bals
from vendors for a contract to
redesign the agency's Web site in order
to make information easier to find.

to make information easier to find.

Bids are due by the end of this month, and work on the project is scheduled to begin in January or February and be

completed by April 30.

Morgaret Millard, the project coordinator at the DVA, and the company that n uns the countract

ny that n use the contract will be responsible for designing a serviceoriented architecture based on input it gathers from user to, us groups "We want to redesign the architecture of the

Site because people comnot find stuff. Mollard said. What we are doing now is long overdire. The Web site has been in need of redevelopment for everally are, and we have brail wor

approval to do it."

According to the IWAS bid documents, the current Web site supports only a lumited number of online transactions. The agency said in the bid papers that it is aliming to "significantly extend the surfey lediumes of applicits."

in the short-to-medium term."

Development of the Web site's conten and graphics will continue to be done internally and isn't covered by the proposed contract, the DVA said.

●TAICHTEL CRAWFORD COMPUTERWORLD AUSTRALIA

Samsung Unit Among Raided Chip Makers

AMNUNG SEMMANY

Europe GmbH confirmed this month that it was one of several

chip makers in Germany roaded by the European Commission as part of an in vestigation of alleged price fiving. The EC disclosed on Oct. 31 that it

had conducted unannounced inspections at the offices of several static RAM manufacturers in Germany. However, it didn't identify the componies that were raided. Such surprise inspections on past of

Such surprise inspections are part the preliminary stages of price-fixing investigations, the EC said.

investigations: the EC said. Samsung's offices in Schwallach, near Frankfurt am Main, were raided by EC officials on Oct. II. according to

a spokesman for the company.

"For the time being, we are fully cooperating with the investigation," the spokesman said. He added that Samsung hesn't been asked to turn.

Samsung hosn't been asked to turn over any specific documents to the investigators.

• NAMES COMPANY OF THE WAST SPACE.

Motorola Protest Leads Court to Delay Contract

ptini, mota tti 161 III High Court has delayed the awarding of a mobile network equipment contract by telecomministrious service provider Blazara Size has Neumar Lel in response to

Metorola Inc.'s complaint that it was unfairly welinded from the bidding. In its Not, 2 decision, the court ordered BSNI not to award the contract before this Thursday, when the next hearing in the case is scheduled. Neither Motorola nor BSNI, which is not also the bidding to remove

would connect about he ruling Metorold filed a lineaut against New Delih based ISSNI for month, after its bid for the contract for GSM and St cellular network equipment was disqualified on technical grounds. As part of the lawsuit, Montrold wald it was seeking further

clarification about the bidding process from BSNL. I M Friesson Telephone Co. and Nokas Corp, were the low bidders for

Nishaa Corp, were the low bidders for the contract. China-hased telecommumeations equipment maker ZTE Corp, also submitted a bid, but it too was disqualified for technical reasons. **DHM BBERT DISK WAS SERVICE.**

Compiled by Mike Bucket

Briefly Noted

STIGHY NOTEC said it was awarded a saven-year contract worth \$297 million Australian dollars (\$230 million U.S.) to continue pro

viding engineering, operations and held misitenzance services for Vols fone Group PLC's mobile networks in Australis. The deal extends a certract signed in 2004 under which hobia manages Volations Australia GSM, 30 and HSDPA networks. IN UNDER PUBLIC CANDITIES WILLIAM

and Micron Technology inc. last week amonemed plant to build a Sectory in Singapore to praduce NAMO Bash memory devices. Construction on the plant will begin during the first hall of most year will cost "billions all dollars," the companies and intell and Bolos. Make Thesia Micron plan to create a joint westers to non the own Sectory. In SUMMER LEADY.

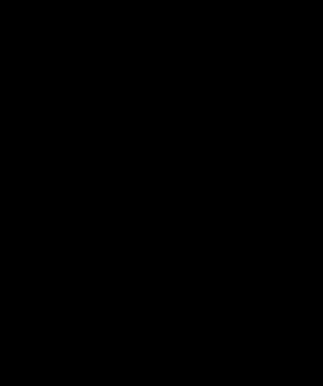
last week announced that their research organizations will werk tegether on IT issues. Focusing initiality on hardware and solutions with werk missing the natherinar and solutions without calaboration by workers of IPL Labs in the U.K. and the U.S. and at SAP Research in Australia, Germany and Morthern Ireland. The companes defin j crovide any functional details or say how many staffers will belong part.

IDG NEWS CERVICE

said the number of subscribers to its 30 orthate reter phone service in Japan hit 30 million on Mox. 4, just over hire years after the service was launched. Tokyo-based MTD DeCollo added that it has had more 30 subscribers. than 20 subscribers since midpear.

last week said it has opened a 180,000-square-loot facility in Briting that will support the development of next generation products for oustomers worldwide. The new facility, Mertel's

was support the development of non generation products for customers worldwide. The new facility, Merel libred development center in China, also houses the headquarters at the Brampton, Ontarie-based vendor's



GIORAL

An International IT None Dimet

IT Even to Ouit Maturals After Shift in Rudgeting

EVEN NETWORK LTD. a television network operator and magazine network operator and magazine ton technology executive in the midst of a move to transfer IT budgeting rea move to transfer 11 budgeting re-A markonness for Course Naturals confirmed last week that CFO Peter Lauris has taken over direct responsi

bility for the company's IT budget. Meanwhile Steven Longo, peneral manager of group IT services at Seven Natural confirmed that he will bear his lab arest much I came dealined to discuss the ongoing changes to the company's IT companies tion ompany's 11 organization.

tion earlier this war of Peter Whitford who left his job as information systems manager after more than 20 were at Seven Network The company spokesman said IT operations will be managed by the

head of its broadcast engineering unit The enokerman downnloand the shift in budget responsibility, saving there are no IT restructuring or cutting plans. "The word GLOBAL FACT restructure is too grand a

term," he said, "IT has al-

ways been part of broadcast engineering." In a survey of 275 CIO. --- durant ship year by the Australian edition of CIO, a Computerworld sister publication only about onethird of the respondence said that they reported

directly to the CEO of their companies instead of to the CFO. me sunos pocos COMPLETE MACHINE DI ALIETTA I LA

-----India OKs Vahoo's Internet Phone Plans

AHOO INC. last week said it has been given permission by India's

national government to offer Internet selephony services to custom ers in the country AOL LLC also plans to introduce a set of Web-based services, including

Internet telephony and instant message ing, in the Indian market, according

to a engharman for ACM India The

to a sponenum nor rear. usus. Spokesman sato than will happen a but he wouldn't discuss Value is creating a new company

called Vahoo Internet Communications India to offer its telephony service tions india to oner its telephony services, a spoucewollian said. The temps company's existing Value India subcompany's existing Tanoo india suc-

Internet telephony has become a notantially large course of reserve because of the rapid growth of Web use

Cause of the tapid growto or web use in India, the Tanou spokeswoma Veterans Agency Plans To Redesign Web Site

OVERNEY ASSESSMENT HE AUSTRALIAN Department of Materiane' Affaire le conking bide freezans Anans is seeking on redesign the agency's Web size in order

to make information engine to find Bids are due by the end of this month. and work on the project is acheduled to begin in January or Esbruary and he completed by April 30. Marcaret Millard the project coordinator at the DVA, said the compo-

ny that wins the contract will be reenqueible for designing a serviceocogning a servicebased on input it eathers from user focus groups. "We want to redesign the architecture of the size because people cannot find stuff," Millard said "What we are do-

ing now is long overdue. The Web size has been in need of redevelopment for several years, and we have finally not approval to do it." According to the DVA's bid docu ments. the current Web site supports

only a limited number of online transactions. The agency said in the bid naners that it is aiming to "significantly expand [the site's] e-business capability

in the short-to-medium term." Development of the Web site's content and graphics will continue to he done internally and isn't covered by the proposed contract, the DVA said.

COMPUTERWORK DIAISTRALIA

Sameung Unit Among Raided Chin Makers

AMSUNG SEMICONDUCTOR Europe GmbH confirmed this month that it was one of several the makes in Comment wilded by the Furnoesa Commission as part of an in-

puropeus Commission as part of The FC disclosed on Oct. 31 that it had conducted unannounced inspections at the officer of source static BAM menufacturers in Company

The same is didn't identify the same niowever, it usual t sales Cuch suspeire income the preliminary stages of price-fixing

investigations the EC and Samsune's offices in Schwalbart - Senseting & Onices in Schwarzen, by EC officials on Oct 11 according to

a enobermon for the company *For the time being, we are fully operation with the investigation." the spokesman said. He added that Common boards bear asked to true over any enecific documents to the

INVESTIGATORS. - IDANGT GOTHING, IGO NE WS SENTIGE Motorola Protect I ande Court to Delay Contract

---HE DELKI High Court has delayed the awarding of a mobile network equipment contract by telecommunications service provider Bharat Sanchar Niesm Ltd. in response to Motorola Inc 's complaint that it was unfairly excluded from the bidding. In its Nov. 2 decision, the court ordered BSNI not to swent the contract before this Thursday, when the next hearing in the case is scheduled

Neither Motorols nor RSNI which is owned by the Indian covernment would comment about the ruling. Motorola filed a lawsuit against New Delhi-based BSNI last month after its bid for the contract for GSM and 3G cellular network equi ment was disqualified on technical grounds. As part of the lawsuit. Motorola said it was seeking further

clarification about the hidding process from BSNL LM Ericsson Telephone Co. and Nokia Corn were the low hidden for the contract, China-based telecomm nications equipment maker ZTE Corp. also submitted a bid, but it too was dis-

qualified for technical reasons # JOHN RIBERO, IDG NEWS SERVICE Compiled by Mike Bucken.

Briefly Noted

COTTOWNED IN AUST

tol Corp. Mar e. had week some and a factory in Six and a factory in Six INC MEMO CEDMIC

wiett-Packard Co. and SAP AG nelado collaboration by worker IP Labo in the U.K. and the P C anies dide't pe will take part.

HTT DeCoble Inc. said the re of subscribers to its 36 cells one pervise to Japan let 30 m IDG NEWS SERVICE

rtel Heteories Ltd. Is 4.100



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Microsoft Takes Criticism of Sun Deal to Heart, Exec Savs

Crafts Novell met to avoid similar reactions on a Rod Hat users not at risk on the Admin default is progressed -- -----

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december and not you the GPT state of it allot that you to the contract of the contract of the Novell's customers from a Ma count intellectual enworts crossed interaction property perspective i tratamossus through with the Graph walls Incitati is terr spec

Secreta look back on Microsoft's 2004 technology development ZUU4 seconomy neveropment Cold with post time market want at the Housel deal in two wars. and mander what really came

and at ar? We've mention a lot of cor et et et et petret a tet TOR HOSE RESERVED THAT. THE TEST other open-source vendors? Chir four is over to invene to do a of a sel about as a bound beauty of an emphasise level but it and done of our comment Mar made some to rest some importrust thomas an place that would a joint lab. Also, we are puttime a substantial answer of

comment ation into the Wich a

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How does Microsoft york open

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What is Microsoft's motivation for the deal with Novell? I

Open-source IDI gaining ground in corporate II

OT HEATHER HAVENSTEIN It yes as goothy mouth the L large consortium was un solid in 18M includers with

leased on the orate-source - common the amount (IIII) the mobile by an actable I change transcendences has IRM 10 A Section by and Builded Software Corp.

of Labras, The IDE has been since work 2003

Communication other com-

man estimatects. In linear Actions and Burn Street no. L. f. lt L. a hometry proceeding EnrStreet L14 . There is very little research spend money un custom read IDIa um www. We have not entoriced Halame's line for all develor

tion standard. A Boost for Productivity Based on surveys of CitiStreet developers, Mrasmik and that be large makes softmane

An element man officers by Laure II Defutis efforts as some as code is typol and because Library in better ore mise "The quality of the Java code produced using believe

is much better than code produced using other tools." John Lummanaham, presi dept of Rand XI International

LLC in West Hartford Conn. and his commune used Eclipse to build as ammercial wareless

Worldwide Folinse Usage

held decises and monitors sensers for nerve agents, examile, The application called tarana na madha the Machinian National Guard to

narral for possible business at chambied or made in attacks at the 2006 Super Bowl in Detroit and a NAM AR races in the state in June and August Phillip Rusneckt, survey ream leader in the Michigan

National County Styr Weams ons of Mass Destruction Civil Support Joans, said that prior

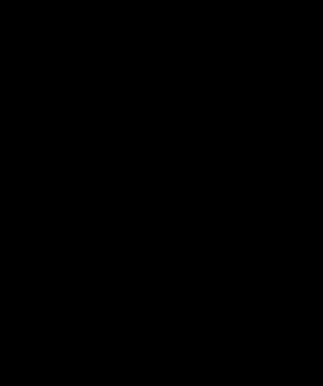
offers with the range waldsome at anch exents had to use rulius to report would realize to a communication

The unit first used the Cyrano amplication at the Surer Box lan tubra up he said In the past, Rusiceki said the soldiers - who would likely be among the first to respond to a terrorist attack would spend 70% to 80% of

their time reporting results Therma diaments to be all the readings that come back from the but own: "he said "It dlane the soldiers to concern tests on their one interest and that on reporting back readings from radiation meters." Dis el Johnson, director

of software engineering at I Latert unment Television Inin Lys Angeles, said that most developers at his commany

choose to use the Lelipse IDI "believe carly entitteerated well with our source manage ment system." he said, "where other tools were lagging behind in support."



Microsoft Takes Criticism of Sun Deal to Heart, Exec Says

Crafts Novell pact to avoid similar reaction: says Red Hat users not at risk

Two weeks one Microsoft Com and Novell Inc. agreed to un-Mountly SUSF Linux and Mirrosoft's Windows operating system to bet-ter work together, Theu

olso agreed to indemnife CLICE Linux wave from SUSE LINUX users from Microsoft patents The move promoted overtions about Microsoft's less term over the plans and how this deal com-

mer to an earlier deal with Sun Missonwaters Inc. which has been criticized for larking substance in an interview with the IDC Name Comics last work MI MIL proprial manager for

spoke about both deals and about how the company reports anen-source software

Here does Microsoft view op sered? Microsoft does not

compete with open source. We compete with open-source products that people sell. When compromised middlessame comnany now owned by Red Hatl. --- Cound a few interesting state Malf of their overs were running on Windows, We also found that after we did the deal. we sold more Windows serves licenses. That's just fundamental good business. So when we net into the competitive debate IBoss helped our Windows

What is Microsoff's motivation for the deal with Hovel? This is an intellectual property deal. There will be an overlap at some point between our intellectual property and open source that we have to resolve. We said let's put in place something that allows

server business error

ur to A) establish a negocess as to 11, Cataonian a process open-source company on our intellectual property: B) do it in such as way that it nen still reach within

the CDE (CDE) Commit Public Licensel and C) do this in a new where we can clearly draw the line between the community developer the manney or resoper, one source community cur writing code and the

along to excellent hat in an of commencial developes who is

Open-source IDE

Five years ago this month, the

veiled by IBM and others with

an eve toward offering tools

Eclipse integrated develop-

Since then use of Eclins

source code and packaged

from wendors such as IBM.

estimates that more than

20% of software developers

worldwide work in organiza-

of Eclipse. The IDE has been

managed by the not-for-profit

Eclinse Foundation in Ottawa

*Compared to other com

Market research firm IDC

Software Corp.

since early 2004.

based on the open-source

ment environment (IDE)

Eclinea consortium was un-

gaining ground

in corporate IT

using open-source code ing open-source code. Doing one of those is enty-

Cause

total property was infringed inn't this a valled threat to Red Not more - that commercial de-

cial open-source develo

mare possetting in pact wis

mercial products. Eclipse is much better in quality and features," said Barry Strasnick CIO at benefits provider CitiStreet LLC "There is very little reason to spend money on commercial IDEs any more We have not enforced (Eclines's) use for all develop-

ers, but it has become the de facto standard A Roost for Productivity Based on surveys of CitiStreet developers, Strasnick said

his somed among corporate developers working with both the publicly available Eclipse that Eclipse makes software development more efficient because it reports errors as soon tools based on the technology as code is typed and because Eclinse can better organize REA Systems Inc. and Borland

Ison code without requiring that it be manually changed "The quality of the lava code produced using Eclipse is much better than code produced using other tools."

tions that make significant use Strasnick said. John Cunningham, presidept of Band XI International LLC in West Hartford, Conn. said his company used Eclipse

hard but possible Deine all three is sure were hard hecause one can contradict the

venopers are only legally protect by mine \$100E Limm? There's no threat There's a fundamental premise that we need to tal premise that we need to have the market blockmans Why did Microsoft agree not to of intellectual property in the constitut system space

at open-source accompars for deat infringement? We have is Microsoft going to approach the largest and more national portfolio in the world. With door is open to anyone to do a onen source we needed to door is open

have something in place where Is there any significance to the timing of the Hereal deal? We unon me had a framework in started on the seneral framework for this three warr ner

The deal with blood stand shout six months one. There was just a lot of most we needed to do to understand

st. CM side of bondons sin the GPL side of it and our ve un an providing comments for Newell's contomore from a Microsoft intellectual property necessarium. That allows us perspective. I nat autous us the CTV is some sensites should licensine of nateurs

Pennis look back on Microso People look back on Microsoff's 2004 technology development deal with Son and wonder what it accomplished. Will we look back of the Years and in two years

and market what made come out of RT We've notten a lot of reaction about that. There's actually a recognitions amoun of much that we do with Sun of work time we do with but it inst doesn't get exposed. We made sure to put some imone test things in place that would be estable to be the sense like a joint lab. Also, we are ren. ting a substantial amount of co-marketing into this. We've learned from the Sun market seastion 8

Eclipse Picks up Speed at Five-Year Mark

Worldwide Eclipse Usage

application that more on handfrom the bot zone," he said. "It held devices and monitors sen allows the soldiers to concen sors for nerve agents, cyanide. radiation and other threats The application, called

Cyrano was used by the Michigan National Guard to patrol for possible biological. chemical or nuclear attacks at the 2006 Somer Board in Detroit and at NASCAR races in the

state in June and August. Philip Rusiecki, survey team leader in the Michigan National Guard's Slat Weap ons of Mass Destruction Civil

Support Team said that prior

effort with Cyrano, soldiers at such events had to use radios.

to report sensor readings to a command center. The unit first used the Cyrano application at the Super Bowl in February, he said. In the past, Rusiecki said, the roldiers - who would likely be among the first to respond to a terrorist attack - would enend 20% to 30% of their time reporting results. "Cyrano allows us to log all the readings that come back

trate on their mission and not on reporting back readings from radiation meters." David Johnson director of software engineering at E Entertainment Television Inc

in Los Appeles, said that most developers at his company choose to use the Eclipse IDE "Eclipse early on integrated well with our source management system," he said, "where other tools were lagging bebind in support "1

Hard Frough

THE STORY "Hurd: 1 Wish I Had Asked More Questions" (Core-puterworld.com, Sept. 28) makes you wonder just why Mark Hurd still bas MONDEY Just MAY MARK CRUTO best mess his such the CEFO of HIP It was his such to custom the work of others. The delta contrates the work of others. The cal several menagers at the loss level. All Hard had to do you make over these were doing their jobs correctly. What kand of CEO doesn't mud all corremunications sent to him personally? H munications sent to him personary r shalls what CFDs do in the corporate world then we have some over side

Corporations. Stier Mich milestines |

Sneech Technology le Not for Everyone REFORE YOU start congratu-Lating warranges about the

coming yourseives about the plications I Now We're Talking choology Oct 21 was need to cole whose voices are impeded because of a lists a shallor a stroke orcause or

While the morelists can dismiss the alcoholic there are others such as me who are afflicted with a stutter. and we will prefer a keyboard. Thurses B. Kenneller

Springfield, III. Words Readers Love to Hate

WHEN IT comes to "Words We Love to Hete" (Nanagement, Oct. 9], don't forget "leveraging (using what you already own) and uman capital" (employees) That just one and ones you a warm fuzzy feeling and lets you know they

Charlotte, N.C.

HERE ARE a few more: agine development (anyone over 50 can hit the bricks); alignment (my way; antonym: the highway), onboarding (sops, outsourcing was a disaster); sysprog and sysedmin (major and minor delities); learn player (anyone

who gets afignment). Dan Sitier Lead software programmer, Hobart Corp. Troy, Ohio

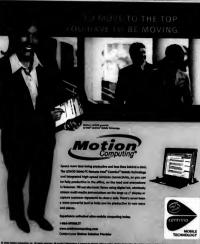
No Fuel Fool

REGARDING YOUR Sept. 18 ower "Mean! and who are we biblion heavy? The fact in that having gen production requires energy to necessite it, especially if the hadroness

Annual secure is from about the oxygen source is from electroyse of water which requires copious of water, which requires copious mantifies of electricity most black quantities of electricity, most many from fossil-builed power plants. Thus, there is nothing "green" about fuel calls, other than the fact that there are

contracted with recovery Compared with generators. ruli clies are wormy or consumeration in the role or a UT-s, owner as any flowbasi technology that you mention near the and of the action I send on meaning of fast cells only by MPS cols, other man the fact that more are mention or nan coms only to unto no air emissions in the vicinity of use. ---makes any series or or his or technology in a data center. Torre Season Contract

Systems administrator from Albertanii More Letters, page 27



DON TENNANT

Argument of Convenience

HE ANCHOR STORY of our 20th Annual Salary Survey package has an intriguing headline: "The Lucky Ones" (page 41) The accompanying slotmachine artwork illustrates the story's contention that "a few lucky [IT workers] with the

hottest skills" have won the salary-increase jacknot. Per not so sure I doubt that hock has much at all to do with how IT pros with hot skills are faring The fact that the increases in salaries for network architects. Web down! ones and a commerce directors outpaced the increases for other IT job categories ign't a matter of chance, and neither is finding oneself in one of

those enviable positions. Individuals in nositions that earnered above-average values increases this year recognize that you can't just sit on your existing skills and home to get backy. They'll tell you that you need to proactively research where the greatest demand lies and adjust your career path accordingly. That may or may not be worth the effort to you. If it's not, that's fine

But don't fool yourself into think ing that the people in those positions simply had the good fortune of being in the right place at the right time Almost operation of directors of e-commerce, the biggest winners in our survey, reported that they had different job titles a year ago. Overused as it may be there's comething to be said for the old Wayne Gretzky line shout election to where the needs is noing to be, not to where it has been. All of that said, the fact remains that chance is indeed a key factor

in determining how much money you're likely to make as an IT professional. If you happen to have been born female, odds are you're making 12% less than you'd be making if you had been born male, according to this year's survey.

That finding is sum more troubling than our discourse from last year's survey that perman were making 10% less than their male countownsete Leubenmenth wrote about the injustice of that and I got an earful from indignant males rui from insignant mates

> since the numbers aren't weighted to account for factors such as family considerations that compel women to steer away from what would be career enhancing relocations, dollar-for-dollar comparisons like this are misleading.

I serve that the sender wave-our innue ion't black and white But dismissing the disparity altogether as a reflection of the choices women

story They around that

and work lives is an annument of and work are Deposition of how it's entionalized a 12% can is wholly inconsistent with the standards of fairness and envity that we should ------ in the washulane And the fact that the gap is wider this wor then is was last year suggests that no approwas use year suggests that no appre-ciable effort is being made to address

the inequity. That needs to change and there are ways to change it. There's a lot of buzz about equal pay audits in the U.K., where the percentage of females in the IT renfession has declined from 27% in 1997 to 16% today, according to Intellect, a U.K. IT trade association. An Intellect survey rublished in May of this way found that 80% of women working in IT felt that an equal pay audit should be ures don't tell the whole

compulsory. The IT sector needs to champion the cause of equal pay audits in the U.S., where the percentage of women in IT has also been dropping steadily over the past decade. If we're lucky, that effort might help stem the damaging loss of women from this profession a



MICHAEL CARTENDERS

Vista's Pros And Cons

THUE THE navsavers were still calling for Microsoft not to ship Windows Vista until cometime in the spring of 2007 Misannual appropriate that it is definitively on track to deliver Vises this war to business users and in lancare 2007 for everyone else. What does

this man for sour Well Viets is not something that can he issued and source openization is minute have to come up with a policy for Vista deelowments pretty soon (or and users are just oning to take mat-

to good she's own hands When Microsoft launched Windows Of Lestimated that between Microsoft and all its partners, about \$500 million would be spent on marketing. This time it's likely to be well porth of \$1 billion

speet in an effort to out and users and IT professionals on board with the migration. When I look at in T see four major things that are compelling show Vista and four big issues with migra-



Improved reliability and security. Windows XP was a soud operating system, but let's face it — five years ago. no one foresaw the security and reliability problems that

would come to plague PCs. Microsoft has learned a lot since the launch of YP and it shows Vista is much more stable and secure than any previous

version of Windows. Protected mode internet Explorer, One of the biggest vulnerability points has been Microsoft's IF becauser. While the just-released IE7 addresses a lot of security issues, IE7 running on Vista takes things to the next level. Running in protected mode, the browser is totally isolated from the rest of the operating system and actively

protects sesinst mulicious code This protects against masscous code. I has alone is worth the orion of admission

Asea Glass. Computers on TV never terfaces (but also draw text on comen so if it's moving at 200 hand with an as it it is moving at 500 band, with aircandy but it's really nicely done our candy, but it's ready nicesy done eye candy. Visita's deel innertace is actually on CSI Reporting to YP ofter pring Off CSI. Reverting to Ar ante, using while the short This is how seement

ere should look in the 21st century Media contricity Media is a first-class citizen in Vista. Tight integration with Windows Media Player and the Windows shall make it really easy to

browne previouse the and play all the content that's important to you Muric nisteers and sides all much instale pictures and vaseo as work

What's Not

Oratultous UI changes. I love the user in-terface but I have a lot invested in the old Windows experience, and some of the shares had seen to be the the changes just make no sense to me. It also seems that, given the size of some o and use high-modulion monitors

the targets you have to home mon was your cursor, microsort is miring a for or Performance. All this goodness comes at a price. While most features are enabled to some dorme on stock

PCs older machines just som't be un to PCS, order macranes just won t be up to constant with all I II Contract workland greates with an O'i features etabled, lantone in particular are unlikely as he able to our Viete small swith all the 171

able to run visc Compatibility This is not a new newhless but Vieta will confoont business up - Coat Coat will countries business us major backward-compatibility inner. In major backward-companionity issues. general drivers and low after drinker plications will need to be tested careful. by to see what works and what doesn't to see what works and what doesn't. gration than the price of the operation

system Installation testing bardware

and software unerades have to be facand sortware upgrades have to be tactions are mine to be mostly

Datter Line

There's a lot to like in Vista. While There's a local like in Visia. White served by a phonod migration over served by a phased magration over in a disable Pinker was Missain in immediately. Extret way, vista is on the short-term norizon, and it's oest consumer launch early in 2007 a

WANT AND ADDRESS More columnsts and fines to archives of proves.

mainland these Charles

Since You Can't Get There From Here IDRINIA ROBAINS' sirecia

analogy ("Cooking Up Great IT," nine Seet 161 comparing flore don Romsay's service improvement techniques for restaurants to the job of turning around IT departments contained many loths, especially urfan communication and the need to look at things from an exten-

As a former CIO I house often thought of another analogy. Two tourists were lost in the less country. side. Eventually, they came upon a mand birthman Tould you steam belows air and direct us to the town of Kerry 7" they asked "Ch" renked the man "diffi Kernyana" he want inc. then I wouldn't start from here. When handed the IT rains with the objective of implementing service eovernent. Eve often thought that, given the chance, "I wouldn't

etact from been" art Day ert Deces over, KPMG, Wellington, New Zealand, rdodds@komcco.nz

Gravilsting Sparm

OUR ARTICLE "Sporn Fighters Ground (Comp. com, Sept. 21] misses an effective but underused soam hohimo technique gradistion or ternits it increases the cost of sending span without tying up the resources of the receiving mail server. It works tivity not enforcing an Orwellian better than filterion because it works on the sender behavior rather than the content. If every bury mail

server used condisting to terroit spen senders, there would be a lot at severe, were would be a activing vendors you can't once ate cosh flow from it - and on it will nower he widely represented

Designation College of Applied Arts and Technology Orbania Orbania

I'm Surfing, but I'm At My Desk, Right?

W NILE THERE are certainly Crack Down on Personal Not Live* Consultremed com Sent 263 for the most east it is simply that one ployers now have a method of mer Problem report resident to prescribe the state of the sta technological manner. Where before nennie would walk to someone nise's deals or you the above to tally they now use e-mail or IM. Before, they might peruse paper catalogs at work who might have used a portable TV ----

Mile Rational Servey City, N.J.

RESTRICTIONS ON the pas of the Web at work will on the way of the restrictions on necropal phone use that were common degades ago. Young people who have grown up with the Web will demand unrestricted access. Organizations need to focus on employee produc-



How Do You Control Charlie, the CEO?

RANK NAYES ["Cortrol Char Ne." Frankly Speaking, Sept. 251 has hit the neil directly on its logical little head concerning controlling the introduction of malware into corporate networks: When "Charlie"

foes something sturid everyone elea chould auneriance an immeri-The result depends upon the speate ious of access, and Cherle's accific dominance hierarchy of the tions should be clearly and publicly company involved, but it is much identified as the cause, in a free more likely that a lose-canking more merius where everyone had equal has of the IT department would be

status and mode rational choices this would work perfectly. But a company is basically a primate troop with a well-defend hierarchy. The correlation between

dominance and intelligence in primates is zero if not actually What happens when Charle is a high-ranking but stured manager?

At most companies. IT would companies to would contable he forbidden from electrics down access when Charle door something shapid and lorbidden from disclosing that Charles were the studied chimo who caused the retare in the first place. Haves' sn-Advance a wanterful one that would nonetheless segues skilled and Automotion require coulou and An element there are no technology problems sub-primate problems Protestina. Coftware daysloom

Calt Labor City Grandma Networks

THE ARTICLE Tive Reasons Anthony Security' (Computerworld com Aun 241 augtes Jason Bradley as saven "How does granding know what the registry is? Watch it. This grandmother of three is a notwork snarophet and

you'd better believe she knows what a registry is. Stop stereotyping. World Winsel Network specialist.

Union-Endicott Central School District, Endicott. N.Y.

COMPUTERWORLD welcomes comments from its menters, i effect will be edited for brevity and clarity. They should be addressed to Jamie Frids letters editor. Computerworld, PO Box. 917) 1Specin Street Framingham Mass. 01701. Fax. (508) 879-4843. E-mail: letters/Poortes.terworki.com include an address and obone rumber for immediate verification.

DON: PENNANT

Argument of Convenience

HE ANCHOR STORY of our 20th Annual Salary Survey package has an intriguing headline: "The Lucky Ones" (page 41) The accompanying slotmachine artwork illustrates the story's contention that "a few lucky [IT workers] with the bottest skills" have won the salary-increase jacknot.

Em not so come Librobe short hook has smooth of all that lock has maken at a with hos chille you fraime The fact that the incorre-- in calcular for maturark architects. Web develwhere and accommunity directors outroped the on on some for other IT inh cotosories isn't a mortio of chance, and neither is finding oneself in pres of those enviable positions

Individuals in positions that manners is absent approximate and arts increases this year programing that your can't just six on your existing skills and hope to get lacky. They'll rell some that you need to proactively research where the greatest demand lies and adjust your career path accordingly. That may are may not be worth the effort to you. If it's not, that's fine,

But Jon't food yourself into think ing that the people in those positions simply had the good fortune of being in the right place at the right time. Almost one third of directors of excommerce, the bingest winners in our survey, reported that they had different job titles a year ago. Overused so it may be there's something to be said for the old Wayne Gretzky line shout absting to where the rately is our

ing to be, not to where it has been. All of that said the fact remains that chance is indeed a key factor. in determining how much money sow're likely to make as an IT professional. If you happen to have been born female, odds are you're making 12% less than you'd be making if you had been born male, according to this year's survey

The finding is over more troubling than our discounts from last year's curvey that women more making 100 - here then their male counterrores, I subsequently wrote about the injustice of that and I not an outful from indignant males who invieted that the fire

toer. They around that since the numbers areas mainband to recount for Comment of the commen that commed momen to chase more from what would be career unbancing advantions. Address for dellar comparisons like this are misleading Lauree that the sender wase-san army just black and white But dis-

missing the disparity altowaler or

a reflection of the choices women

millionly make to belonge their born and work lines is an annument of convenience. Revardless of how it's entirellence, regardless of few in commentation at the page or warming fairness and emits that we should expect in the workplace. And the fact the their in its wider this sear than it was last year suggests that no approeighte office is being made to address the in consists

That mode to change and there of hove shoot overal new surfits in the U.E. where the percentage of families in the IT profession has declined from 27% in 1997 to 16% today reconding to Intellect a D.K. TT trade association. An Intellect survey published in May of this year found that 80% of women working in UT felt that an equal pay audit should be unes don't tell the whole

compulsory The IT vector needs to champion the cause of caual pay audits in the U.S. where the netcontine of women in IT has also been dropning standily over the past decade If we're backy, that effort might belo stem the damaging loss of women from this profession #





Vieta's Pros And Cons

THE THE payeavers wore etill calling for Microsoft not to ship Windows Vista until comprise in the spring of 2007 Miconcern announced that it is defini-

stocks on teach to Adison Victo this war to business users and in lanuary 2007 for anomore also What door Wall View is not something that can by imposed and overse operation is

to parties, and every organization is for Vista denlarments matty soon for and soon are just noing to take mutto in their one banks the Advance of Louisian Amindana US Leastmand that between Microsoft

and all its pasteons; shout \$500 million woold be spent on marketime. This time, it's likely to be well neath of \$1 billion

spent in an effort to not and more and IT perofessionals on board with the migration. When Hook at it. 1

coa four major things that are compelling big issues with migration. Hore's what to

who to much out for What's Hot Improved reliability and security Window VP

was a poor of operation coctom but let's from is foresterness own no one foresaw the no one toresaw the

would come to plague PCs. Microsoft has learned a lot since the barneh of VP and it shows. Vista is much more enable and course then one pagainer

version of Windows Protected mode Internet Explorer. Onc. of the biggest vulnerability points has been Microsoft's IF bonnser, While the just-released IE7 addresses a lot of security issues, IE7 running on Vista takes things to the next level. Running in protected mode, the browser is totally isolated from the rest of the operating system and actively

protects arrangly mulicious code. This protects against manerous code. This Ann Oters Comments of The nero ocasa componers on a v never turface that also described operation to first many many or first bound to advise as it it s thost ing at 100 band, with an maying sensing effective it's mostly ey conds. Vist is most intent as is not a the an are also be a lambda and but and and pretty stick and inigain even now go View with the all of the Aure classers

Vista with the all of the Aero elements the best of the barriers and the Madia contricity Madia is a first class site on the Mana Winds interpretation with Windows Media Placer and the Windows shell make it really case to

bronge non-inster the and play all the company that's impost any pay an the al atomic and all has all most increased pictures and video an work

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and use high nucleation manitors Defendance Allahir monitors. comes at a price. While may former are enabled to some dorne on stock

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Since You Can't Get There From Here

MINGHIA BOBBINS, conanalyze ("Crysters the Great IT" Operand Seet IIII commonant Gov. den Ramusy's service monturement techniques for restaurants to the inh of human secured IT departments containing in contain to the account of ---need to look at these from an exten-

nai vewpont do a fermina CSO I have a street throught of another analysis Turn to east were last in the last on intosale Eventually they came upon a second belows "Could you please belove or antiferet a to the team of Kerry?" they asked "Oh" renied the man "dafe Kornyuru'll be want. one there is an order of sets of forces become When handed the IT room with the characters of anotomical concess management Top often thought that owen the chance "Lyouida" start from bess?

Report Do-64 Portner & PMC Wellington New Zoaland, relodds a kprascourz

Gravisting Spam

Y OUR ARTICLE "Spam Fighters Lourn Secund" (Consultrasold rom Sent 20 moses an effectue but underused soam-hohono technose prayished or larges II remakes the cost of sending seam without lying up the resources of the receiving medicerver, it works better than filtering because it works on the conder behavior rather than the content. If every basy mail

server used organishme in lar-net spare sanders. Here would be a let loca such to fifter Hadort-match for animous vendors, you can't beneate each flow from the and so dwell names his workship nonmaked Losis Bertrand

Professor Durham College of Applied Approand Technology Ork own Outson

I'm Surfing, but I'm At My Desk Right?

WHILE THERE are certainly Crack Down on Personal Net 1 ke Communicated com Sent 263 los the most east of a complethed conale on any have a mathed at man numer what excel to bancon in a nontechnological manner. Where heliceneedle would walk to comeone else's dock or see the phone to talk they non-wear major M. Defect they might penyse naper catalogs at work now they use a Web store. Those who might have used a portable TV or sadio now have streaming contest

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RESTRICTIONS ON the use of the Webst work will go the way of the restrictions on personal shops use that were common decades ago. Young people who have grown up with the Web will demand

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Mmm. Multiplexing USE A gued display system sector for movies), and even if my radioand forte mauscana I stan on become as 10 in 170 corners with arid-on USR touch namels (along with non-tables and yours instructed mrsh So Fm Assets manus of the scalability of the GUI L'OUT Gets a

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Charlie the CEO? E RANK HAYES | Control Phon te "Frankly Speaking, Sept. 251 has he the mail directly on its locarcial lattle head concessing controlling

the extenduction of malaure into corporate petworks. When "Charle" does something shand everyone else should experience an immedi ate loss of access and Charles's as tions should be clearly and publicly identified as the cause in a free

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and the coluttee on Screen 2 subsite Wilcool assessed and Europea To But years to have a Dutlank on Course & EssetDans on Serross 5 and The Settersons on Screen 6 men sa sessoni

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negative What happens when Charle is a both ranking but stund manager? The result depends upon the sperule dominance hierarchy of the company divolved build is much more likely that a low ranking mem har of the IT department would be

and the Charles At most removates (Turnel) nobable he lasterides been shoredown access when Charles from something should and fortunden from during ma that Charter the study cherry who caused the netween the first place. Haves' so behavior a manufactual population and nonetheless con serviced and dedicated noithcal manessoons An alexen there are no technology problems, only primate problems Software developer

Cale Lada Cina **Grandma Networks**

THE ARTICLE "Five Redictes Antonia Security | Computers and com Aun 241 nuntes Jason Readley as sawner "Hose does recording know what the recestive of?" Watch if This grandmother of three is a network specialist, and you'd better believe she known what a recontry is Stop stereotypeso

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COMPUTERWORLD welcomes com ments from exercises Letters will he edited for broody and classly. They should be addressed to Jamie Eukle Inter editor Compressed BORs 9171 1Speed Street Frammetom. Mass 01701 Fax (508) 879 4843 Include an address and chone nero







_DAY 28: These slow, inefficient boxes don't have enough power to run my high-end business apps. They don't have enough power to do northing except cross

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Consortium for a Cure The National Concer Institute Accelerate in open-

The National Cancer Institute developed an opensource, open-access information network to spe community project was named a Computerworld Honors Program award winner this year PAOF 36

SECHBITY MANAGER'S IGHENAL Tackling Security for Mobile CRM A new customer relationship manager

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low to Avoid Getting

Brace Hoard says you can thwart exheresparticulate by deploying robust accurity that con feed off threatened attacks. PAGE 38



Newservices such as

GoToMvPC and LogMeIn are taking the hassles out of

remote access to employee

PCs By Sue Hildreth

DCF SISVERUS rolling his rock on the moontain over and over. IT support professionals deal with the same end-user support issues day ofter day. And when it comes

to supporting users at remote locations. those problems just seem to multiply Far-flung users suffer from shaky Internet connections, misconfigured VPN elients lost security tokens forgotten passwords, virus-rayaned lareops and of course, children who like to "modify" Mom and Dad's settines

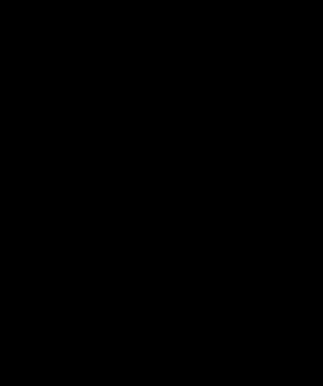
The Players

With more employees than over working away from the office of hom or on the road supporting remote and more is community more and more precious IT resources

To address this problem, a handful of componies - lod by Citris Online a division of Citrix Systems Inc., and LorMein Inc. in Woburn, Mass. — are taking a different approach to remote access. It's one that doesn't use a virtual private network and may make life simpler for end users and for TT surport staffers Under the new concept, the user's re-

mote deckton or lecton len't connected to corporate servers. Instead, the remote user is connected to his OC back at the office, with all of the same files. applications and desktop icons. This is accomplished mainly with a Web browser and screen-sharing technologies like those that have been used for remote support and online presentations. Even a PC in an airmort kinsk or at a friend's house is sufficient to give a user full access to his office deskton. For both busy remont users and over worked IT departments the simplicity of these services can be a podsend.

Mississinni Bantist Health Systems Inc. in lackson, Miss., for instance, had been providing remote users with VPN access to the hospital's existems. But it wasn't an ideal solution for either staffers or users. "The complexity of sup-Continued on page 32



Consortium for a Cure The Mexican Course Institute developed an agen and reaccount Cancer Institute developed an open-

progress on cancer passages and care. The grid

computing project was named a Commuterworld

Honors Program award winner this year PARE 38

SECURITY MANAGER'S JOURNAL Tackling Security for Mobile CRM A seem contomor relationship manage A new customer retationship managefaces a whole new mund of drawing up races a whose new round or draw

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IN F CISYPHUS rolling

Newservices such as GoToMvPC and LogMeIn are taking the hassles out of remote access to employee

PCs. By Sue Hildreth

his rock up the mountain over and over, IT support professionals deal with the same end-user support issues day after day. And when it comes

those problems just seem to multiply. Far-flung users suffer from shaky Inter net connections, misconfigured VPN clients, lost security tokens, forgotten passwords, virus-ravaged laptops and, of course, children who like to "modify" Mom and Dad's settings.

The Players

With more employees then ever with more employees than ever or on the road, supporting remote end users is consuming more and more revious IT resources To address this problem, a handful

of communies - led by Citriy Online a division of Citrix Systems Inc., and LorMein Inc. in Woburn, Mass. — are taking a different approach to remote access. It's one that doesn't use a virtual private network and may make life simpler for end users and for IT support staffers. Under the new concept, the user's re-mote desktop or laptop isn't connected

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of these services can be a godsend. Mississippi Baptist Health Systems Inc. in Jackson, Miss., for instance. had been providing remote users with VPN access to the hospital's systems. But it wasn't an ideal solution for either staff ers or users. "The complexity of sup-Continued on page 32

(intel)

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Continued from page 30 porting a VPN is great, and many is sues have to do with end-user training: sues Michael Lone, director of network

where years ago, when the idea of sides reling to Girts; Odinines (also MyS) service came up; the hospital MyS) service came up; the hospital imped all it. Son, more than 100 Rgtrof Realth administrators and medical professionable use the service. Users log onto the GottoMyS' Web site, which then contacts each individual computer — either at the bospital or in a physician office — and opens an encry pied session between the two.
"It's a familiar environment, and

use? says Long. Utilities A VPN, which requires that software be loaded onto the client device and configured, remote deckslop services gost need software on the host between the client affect the user loads into the client affect the user logs into the service, and that applet communicates with the host decknop loaded in the user has secres to all applications available from the decknop—local long and long as well as server-loaded and applications available from the decknop—local long as server-loading and long as well as server-loading as well as server-loading as well as server-loading and long as well as server-loading as well as server-loading as well as server-loading as well as the long as

the client his year over for them to

The Hurricane Factor

Ease of use and lower IT support costs aren't the unly benefits driving this market. Some organizations also see remote desktop access services as a way to reduce the number of layops floating around with sensitive corporate data stored on their hard drives. Also the services offer ready-to-tign business continuity plans in case of a dissaster or softer embraces, that pre-

vents weekers from getting to the other. It call to the perfects worm of bosenits, and I expect the marketplace for this to grow on the other of two to three times the rate of the IV. market in gaterial," says Daria Gardner, an analyst at Interator's doctroots II C. a Gilfick, N.H.-based research and consulting firm controlled to the controlled of the perfect of the controlled of the perfect of the perfect

"It's not a brand-new market, but it's started to take off in the past few years," says IDC analyst Stacy Sudan, "Some companies no longer want emplayees to take laptops on the road for security reasons. And it's also being offered as a business contributive oriention."

business continuity option.
For instance, the International Association for Exhibition Management, a Dollas-based trade group with A500 members, turned in 00 Communique Laboratory Inc.'s Fm Inflorets service so staffers could work from home when Hurracane Riia throatened in 2005.

"After Katrina hit, everyone was seared. So when Rita started coming, we brught licenses so everybody could week from home for a day or two," Says Chief Financial Otheer Scott Stanton, "It's part of our disaster plan now." The John Monthin Monthem

The Johns Hopkins Bloomberg School of Public Health in Baltimore also found remote access to PCs help ful during a natural disaster — a snow and fee storm that left 30 inches of none on the strough.

"We had one professor who needed to make grant deadlines, and she was able to do all her work remotely," says Ross McKerne, director of 15 at the school. "It would have been a support rightmare if we'd had to go around and out in VIPA. in exercising humos. This

acting transferred

was a next countries. the services help the IT department work with highly distributed operations. The IT staff at Meineke Car Care Centers line, based in Charlotte, NG, uses the LogMein service to gain access to PGs at handreds of automotive centers nationwide — without long drives to visit such location according to rechain

each location, according to technical support specialist Matt Langley. At Kettering Medical Center Netsork in Dayton, Ohio, Sentillion Inc.'s VThere remote access software lets off-sine Physicians, students and ad-

ministrators tap into their baspital PCs Market Snapshot

IDC's August study of the relatively young market for remote access services concludes the following:
Clintu Deline dominates the market, with a 90.8% share, because of its GoToMyPC product.

LogMetn, the next-largest vendor, has seen sales of its product grow and is rapidly gazining attention with its successful free vension, LogMetn Free. Currently, remote access services are most popular with the prosumer.

The technology could become popular at companies leavy of letting employees travel with laptops that contain confidential information.

certain confidential information.

The services could be used for business continuity purposes, if disaster strikes and employees can I make a minimum.

Two barners to adoption: Many comtens already have VPNs, and liggrops are



For many people, being mobile means using a handhold device, so remote access vendors such as LopMein. Citrix Online and OT Communique support handholds. But how well does a lary screen work for viewing

a big desktop?

The big challenge is how to pen around a PC desktop with a handheid." notes Gary Chen an ambjet at Yankee Group Research Inc. He

Kettering Medical has 220 applications and 50 facilities in the Dayton area, so remote access is a major issue, says Director of Technology Bob Burritt.

Good Grades for Security Analysis and users cite few security

of the service providers offer several suggest of curryly, including encryption, certificates and multiple possoweds. The connection from the remote device to the service, and from the service to the service, and from the service to the service, and from the service to the service of the service, and from the service to a user's worth explications—one possowed as nearmally required to gain access to a user's worth explications—one possowed and to be first one possowed and to be for a composate and a third for a cores to the CO. and a third for a cores to the composate to verify their own servers' identifies to quant against a backer attempting to guant against a backer attempting to

to guard against a backer attempting to pose as a server to a remote user — a secalled man-in-the-middle attack. Corporate versions of these services also provide administrative and security functions such as the ability to lock our remote printing or file transfers, one-time, passeconds for users who mus-

our remote printing or file transfers, one-time passwords for users who may be using public PCs, access restrictions and two-factor authentication. "With the [Gri70MyPC] management consoler we can enterprinting to

Iscurity actings, force password design, amange the log and see where some coming from "asy McKenie, Because many plant Hopkine or playes travel to countries without relition of the plant Hopkine or playes travel to countries without relition to the plant Hopkine or playes travel to countries without play enables them to access devalop files and travel may be a played or puters from PCs in leterate codes or any where else in Addition. McKentra where where the Indialism. McKentra with from bound to the plant of the played countries the player and the information using the service, and the information.

systems department relies on it to keep

take on the status of university correspond

vices for accessing deskitops remotals, though they may be useful in contain situations, such as when the user's laptap in Tavalidate, Ross McNarcia, director of S at the Johns Hopkins Bloomberg School of Public Heelth, against that it's not the best ways to get to a deskiton worklink had falled in the ment which

for operative some applications I may be carried to an applications I may be carried to an applications I mouth I man on a handheld, because you've accessing a Ti-in, mention with a 4-in, coreon. The says. That it can also be very usertal. For instance, our Specific use them to check on some status—without having to op back to their debts—or to need a document arcreated. If it is noted the neural root has in.

The only real security issue that Johns Honking has uncountered inandread Analytica shortware. An emphasia discovered that his recommate had elicked on a GeToMs/DC shortest and may able to account the employee's week PC So McKenzie had the shortcut feature disabled for all more (Citrix Challen notes that while it's negrible to create a shortcut to an account it isn't nowible to create one that will open an anomated receion to the boar DC t One advantage of the remote servious is that they murely the chance of a malware infection. Viruses on a home PC can't infect the corporate computone Likewise a comparate virus can't not onto the remote client unless the

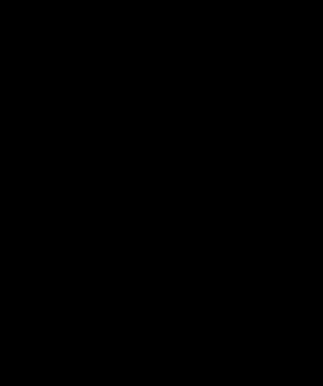
user saves an infected file to disk.
All in all, the real selling points for services like LogMeIn and I'm InTouch are price and convenience. According to IDCs Sudan, fees typically range from \$10 to \$20 per PC per mounts, possibly less for large-volume deals.

sibly less for large-volume deals. And it is substantially more convenient for omployees, who get access to everything on their work PCs, and for IT workers, who don't have to handhold users to set up VINs and config-

Long says that configure could from the configure country that configure could form the could form the country that could form the country that is a country to the Citrix Online service. That is not for the country that is not that is

for other projects, he notes.
"It pays for itself in resource time, if nothing else." Long says. "With the VPN, we sometimes have had to spend several hours with end users initially getting k working. With this, the support and IT resource costs on so work house."

Hildreth is a freelancer specializing in enterprise software and services. She can be reached at Sue Hildreth incomeast net.



Continued from page 30 porting a VPN is great, and many issues have to do with end-user training," says Michael Long, director of network

services.

So, three years ago, when the idea of subscribing to Cirix Online's GoTo-MyPC, service came up, the hospital jumped at it. Now, more than 100 Raptul professionals use the service. Users log onto the GoToMyPC Web size, which then contacts each individual's competer—either at the hospital or in a physician's office—and opens an en-

*It's a familiar environment, and they don't have to launch anything on the client. It's very easy for them to

une: says LONG.
Utilize a VPN, which requires that software he loaded onto the client device and configured, remote deskiop services just need software on the host long into the service, and that applier communicates with the host deskiop long into the service, and that applier communicates with the host deskiop and the service and that applier communicates with the post deskiop along history and the service and that applier communicates with the host deskiop along his user has access to all applications available from the decksiop—local oness as well as server-decksiop—local oness as well as server-deskiop—local oness as well as se

The Hurricane Factor

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based research and consulting firm specializing in enterprise software.

Th's not a brand-new market, but it's started to take off in the past few years," says IDC analyst Stacy Sudan. "Some companies no longer want employees to take laptops on the road for security reasons. And it's also being offered as a

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and ice storm that left 30 inches of snow on the ground.

"We had one professor who needed to make grant deadlines, and she was able to do all her work remotely," says Ross McKenzie, director of IS at the school. "It would have been a support nichtmasse if we'll held no around and

set up VPNs at everyone's houses. This was a nice, clean solution." For some organizations, the services bely the IT department work with highly distributed operations. The IT staff at Meineke Car Care Centers Inc., based in Charlotte, N.C., uses the LogMeIn service to gain access to PCs at hundreds of automotive conters na-

an analysis of announter centers artionwide — without long drives to visit each location, according to technical support specialist Matt Langley. At Kettering Medical Center Network in Dayton, Ohio, Sentillion Inc.'s VThere remote access software lets off-site physicians, students and administrators ton into their bounted. PCs.

Market Snapshot

Officiality in processing which the global interest to global transition are set to global interest to general and or in several data. If they dust proceed to several area of the general area of the general area of the general area of the general area. If they are also we have a controlled and are of the proportion of the proportion of the general area.

The part of the control of the contr

Kettering Medical has 220 applications and 50 facilities in the Dayton area, so remote access is a major issue, says Director of Technology Bob Burrist.

Good Grades for Security Analysis and users cite few security

Analysis and users cite lew security concerns with the remote services. Most of the service providers offer services layers of security, including encryption, certificates and multiple passwords.

certificates and multiple passwords. The connection from the remote device to the service, and from the service to the host desktop, is encryped. And two or three passwords are normally required to gain access to a user's work applications — one password to log into the service, another to get to the PC and a third for access to the corporate network. Some services use certificates to verify their own services' identifies to weathy their own services.

pose as a terver to a remote user—a socalled man-in-the-middle attack.
Corporate versions of these services also provide administrative and security functions such as the ability to lock out remote printing or file transfers, one-time passwords for users who may be usine rubile PCA accorn restrictions.

he using public PCs, access restrictions and two-factor authentication. "With the [GoToMyPC] management console, we can custom-configure [security settings], force password changes, manage the log and see where access is coming from: says McKenzie.

Because many Johns Hopkins employees travel to countries without relable latternet connections, Globbly*C enables them to access desktop files and un attaintical analysis on school computers from PCs in Internet cafes or anywhere else. In addition, McKenzie says, many faculty members work from home unique the service, and the information systems department relies on it to keep tables on the status of uniposerity servers.

The only feel constitutions that Johns Honkins has encountered inwohend desktop shortcuts. An employee discoursed that his recomments had clicked on a GoToMvPC shortcut and was able to access the employee's work DC So McKenzia had the standard feature disabled for all some (Citale Online notes that while it's nossible to create a chartcut to an account it irn't possible to create one that will open an encrypted session to the host PC.) One advantage of the remote ser wines is that they mente the observe of a mahware infection. Viruses on a home PC can't infect the compares compate em Liberrico a comocrate vistas can't set onto the remote client unless the user sawes an infected file to disk

All in all, the real selfling points for services like Logsdein and Pm InTouch are price and convenience. According to IDC's Sudam, feet typically range from Si to 150 per PC per month, possibly less for large-volume deals. And it is subtantially more convenient for employees, who get access to everything on their work PCs, and for IT workers, who don't have to handhold users to set up VTPs and config-

ure c-mail clients.
Long says that support calls from remote users planmered 80% to 90% after Ministelpti Raptist switched to the Citris Online service. That's a lot of IT manpower that's now available for other projects, he notes.

"It may for itself in resource time if

in pays for least in resource tune, it is nothing else, 'Long says, 'With the VPN, we sometimes have had to spend several hours with end users initially getting it working. With this, the support and IT resource costs are so much lower."

Hildreth is a freelancer specializing in en-

Hildreth is a freelancer specializing in enterprise software and services. She can be reached at Sue Hildrethillcomeast.net.

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Tackling Security For Mobile CRM

A new application rollout means a whole now round of drawing up requirements for our security manager. By Mathias Thurman

SECURITY

ministics.

cions have to establish a vin analization made its tuel nelvate network energy appearance make it with head market to access eceses this past the application portal That's a week and I've been busy puttime together a plan to address of our technicisms work in encuries for it fabrication plants operated by our customers whose relicies

To speak in account Pm. moving from PLM to CRM About two months area. I fin-About two months ago, I nnture review and requirements

for a product lifecycle management application The DI M project is still in the development chase and I continue to many a Commission to time to time to ensure that my

re-unirements are being built into the application. My real the validation phase, when (1) and at a white a second that my requirements have been properly addressed But for the moment Do not doing much on the PLM project and can concentrate on CRM

CDM stands for customer relationship management, Our main most with this system is to improve relationships with our customers by streamlining our service department's interactions with them. Specifically we want to use CRM to let our service engineers accept work assignments, account for time track parts, communicate with

co-workers and perform other aspects of their jobs. The service technicians have been using a homegrown tool to accomplish these activising host it leads never instriction

or efficient. Built years ago. when our company was small it was never meant to be an enterprise-class tool. Among its problems is that techniour deputack since many

our customers, whose poincies

portions of the CPM applica-

tion to run on Research In Mo-

rion 1+4's BlackBerry phones

incorporate time-outs, lock

of ununcorreful attempts to

encryption. You can also re-

motely disable a phone if it's

Of course, each of these

lost or stolen.

phones after a certain number

Porting a password our

Server Requirements

set of manipuments for the

intellectual property theft

phones to run the CDM an

largers. In addition, many of For example, I will require these plants don't have leterthat the server be placed on a conserve virtual I AN and net access CommCRM and mondate contain configura ect will include a tions on the router and switch ect was include a are calling "mobilattacks. I'll also make sure that iry "Resides deploysufficient looping is included. ing a CPM back-and which will resist with incident application, we will recovered the detect one include the ability for certain unauthorized use or cases of

plication and talk to our CRM This will be new territory for us and will require a whole back and somes we are using new set of security controls. technology from lersey City We currently don't equip you N L-based Antenna Software more with Plank Porru doniene Inc., which provides mobile The first and of controls in an applications specifically designed for the service industry lated to the phones themselves Riard Rerries allow you to con-Der reviewed Antenna's white figure several security-related naners and am impressed with features You can establish the security of its offering But various lengths for possessords just to be rafe, once the project

team has created design documentation I will review it to ensure that there are no ears access them, and enable data I'm the first to admit when I don't have expertise in a technology, and security for mobile devices is certainly one of those. In order to fully address security controls has a hit on security aspects of the mobility phase of the CRM project.

I will hire a contractor to belo me sesses the infrastructure and devise a set of policies. standards and maidelines for the phones, the Black Berry Enterprise Server, the Anten infrastructure and employees use of the phones. Mobility is

via the phones. For example, we've already deployed IP we ve attenty deployed IP telephony and enabled unified messaring The most applications that are accessible on the District and an excession out lectual property and provide Sur annumber of the sure date of data will be expected ros example, is a manualle a I will also send to feet of paremord with uppercase loss-

Come on the backward CRM inencase and special choracters feastweeture When I conduct. and a five-minute time-out and any annual and the Dig Mar project several months see my more will complete since in putting a password on a Rharkdelinerable was a set of security requirements. I like to create fairly seneric requirements so that the documentation and I will also establish a ceneral spreadsheets for future seedi. estions can be built from them Disch Berny Enterprise Server This practice saves time since most enterprise applications have similar security require ments for example the shility to check outsin types of doors

> many applications. There are other things to look into Encryption of data in transit and at rest will need to be emplosed. I will want the ability to monitor certain types of activity such as longing and log-outs. We'll need to set up authorizations for privileged acress and set parameters for expension reporting Then there are the prodent practices of setting up role-based access control and creating separate VI ANs for Web application and database servers

ments in and and provided

This project is still in its infancy, so I can't be sure yet that I've covered all the bases But mobility will extend the CRM application broad our internal and DMZ environments, so setting it right is essential. If this isn't architected properly, the ramifications of a stolen BlackBerry phone could be very embarrassing.

WIAT DO YOU THINKS deguned for obvious remone. Contact him at mathies, framenthythos core, or lon for decurrant in our security blood



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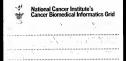
The result is total business protection. And that's an absolute certainty.

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Consortium For a Cure

Re Mary K. Proff



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The Challenge

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The Technology

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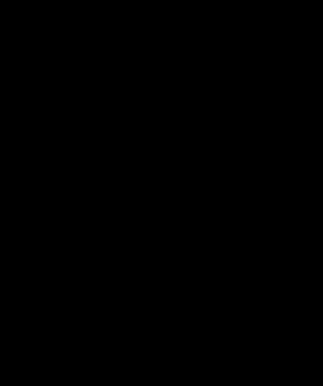
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Consortium For a Cure

The power of grid computing propels cancer research to a new level. By Mary K. Pratt



National Cancer Institute's Cancer Biomedical Informatics Grid

CONCRETE THE National Cancer Institute (NCI), part of the

the state of the s ional freatures -was more consumerant. Dr. July Markets have become observers of the Markets Conces

Advisory Board and now director of the NCI, former director Dr. Androw von Eschenbacht and deputy director Anna Barker

STAFF- About IND NCLIT stations, along with about 620 people from various institutions torie the NCI work on caRIS.

ROI: The NO has invested \$20 million annually over the past firee years. Participants share tools and data which reduces duplicative efforts and specifs up research breakfaroughs.

---fishting cancer have a powerful new weapon. It's not an innovative drug or breakthrough some therapy Perher it's an expansion rechnology initiative that links them to.

maker in their efforts to find a cure. The Canage Biomedical Informatics Grid or caBIG, is a voluntary, open-source. onen-screen persons that allows insti tutions tooms and individual research. ers in the U.S. to share tools, standards.

data, applications and technologies. The National Cancer Institute devel need caBBG with one soal in mind: to speed progress on cancer research and care. "I really use it as the next ceneral tion of research," says David Fenstermacher, director of biomedical informatics at the Abramson Cancer Center of

the University of Pennsylvania Computerworld named the NCI a 2006 Honors Program recipient in the science

category for its development of caBIG. "The community was really very ready for it." says loel Saltz, professor and chairman of basmedical incormatics at the Arthur G. lames Cancer Hospital and Richard I. Solove Pescarch Institute, part of Ohio State University.

The research community has been developing grid technologies and supercomputer consortia to support its work. Salty save And as grid technology has matured on his researchers' willing ness to show data and tools particularly through the Human Genome Project.

Despite the evolution in those areas. researchers were still fairly isolated within their institutions when the NCT and the supply initiation in 2002 project leaders say

We were penerating this large knowleder base, and the only way we were cetting that knowledge out was writing papers," says Rakesh Nacaraian an assistant professor in the department of nathology and immunology at Weshington University in St. Louis.

And even though researchers and institutions at the time were sharing some data sets, the process was cumbersome Researchers would e-mail files or burn data onto CDs or DVDs. which would then be mailed. Moreover. the data's former varied from institution to institution, which required recipients to convert information into formats compatible with their own

"The idea (with caBIG) was that you should be able to re-analyze data in new and novel ways and integrate

other data," Negarajan says. I has was the backgrop as the rec. ine with some 50 NCI-designated cancer centers and more than 30 other organicenters and more trust 30 outer org

The Challenge While the initiative enjoyed an enthusia

antia manager from the research com munity, the program — like all rechards munny, and program — nike an technolrojects — had to contend w First and Cultural Chances 555. enced across 24 states and individuals

working on various systems, including sepo. y systems, in distress sociales that were concention data in different formats uring sympton semantics for the same ebetweet consents "What we saw there was tremendous

Idiocentral in more and systems. And (diversity) in need and systems. And from discovery presearch to clinical trials to the intermediary stems * says You Busyon the MCTs associate director for bioinformatics and IT, and director of the NCI Center for Bioinformatics. which directs come

Decrees barden consentiusly dewelcood the architecture, software infrastructure and standards for shar ing data. They created interoperability that allows for machine-to-machine exchanges, the compatibility of tools and the accurate exchange of complex concepts through the use of standardized definitions and semantics

The Technology

CaBIG leverages existing software standards and onen platforms such as the Globus Toolkit, wherever possible in the Appelonment of this suite of interoperable biomedical informatics tools and shared vocabularies and data

The program also uses specific tools such as caDSR (Cancer Data Standards Repository), EVS (Enterprise Vocabulary cally dispersed researchers and informa-

ticises to query data using desktop tools.

Today more than 800 neonle contribuse to callfG by developing applications infrastructure, standards, policy documents and related resources. CaBIG also links cancer centers in 30 states Moreover, NCI has developed a close collaboration with the U.K.'s National Cancer Research Institute, which plans to hire someone to work exclusively with caBIG to ensure coordination and

technical compatibility The NCI has spent \$20 million annu ally for the past three years to develop caBIG, with much of this federal mon-

ou oning into labor costs and -- 6-----ed and remines according to Buston 1012000 Sel Vices, according to bucto and Peter A. Covicz, cases operating matics. Participating institutions also marks raincipaling months for hind resources or sweet south

Moving forward Buston and Conity Moving forward, Buctow and Covi say one goat is to expand not only the the the number of people using it also the number of people using it. rrogram staters say they and want to submissions to CtBIG and deliver more

user interfaces in the upcoming year. with a build in that an DEC mill the to nother resources and if nothing else. getner resources and, it notating ene, want of Comits own A

Pract is a Computerworld contributing writer in Waitham, Mass, Contact her at marykpratt@verizov.net.



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SunBard Releases

has serviced WeathStation 2.0, which shade settled managed account features in the weath managed account features for the weath management columns for the weath management columns for the service from an extended selector. The software can operateduate search from manifest accounts and destributes and

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Spectra Logic

pgrades Appliance
Data storage vendor Spactra
spic Carp, last week announced
as Spectra DSOO network storpa appliance. The new product
il incorporate Spectra Logic's
handcade storage management
offwore to make it sealer to

mage the backup and arving disk system. The DSOO bedoe the same BlueScale inface that themsels of Spec-Logic T-Series continuers we used for years, making it mantifile with all major backup

conpatible with all major had offware applications, the was for says. The DSOO, which ca is configured with ZTB, 4TB or BTB of raw storage capacty, starts at \$11,965 for ZTB of storage and will be available to the says and will be available to becominer, according to the BRUCE HOARD

How to Avoid Getting Ransom Notes

SUPPOSE it shouldn't come as any surprise that cybercriminals are demanding ransom — in some cases up to several million dollars — and threatening to launch massive, external targeted attacks if we don't pay up. No, it isn't surprising, but it's depressing. What started out as hacking has turned into something that threatens the very survival

of innocent businesses.
It a love-lose scenario for the victims. Their ay the first the result of the victims. Their ay the ranson and risking crippling attacks baunched by multiple virus-infected computers located around the world. This choice entails contacting law emforcement contacting law emforcement are the authorities can find and arrest the threatening party.

the authorities can find and arrest the threatening party. Fat chance. And this option could also lead to a firestorm of negative publicity that can be just as fat as the slobal.

virus attack.

The second choice inn't much more alluring, it involves paying off the extoneter and hopping they'il go away and not come back. But what are the chances of them not coming back when they have already succeeded once? At this point, the victim organization is in even worse shape than it was before paying the first round of ransons, because it has compromised its southing by accepting to the life and its position of the componish of the control of the con

as position by accessing to the using a demands. Admittedly, this worst-case scenario is experienced by relatively few companies (just how few we'll never know, since many of them understandably keep a right lid on such occurrences), but it points to a larger problem faced by businesses every where. Even in the troubled and terrorist-plagued world that we live in, security remains a second-rate concern in many tight-

as Ac

It's not cheap to set up a security infrastructure. According to a couple of experts I've spoken with, the estimated costs for protecting a company with 15,000 cmployees run anywhere from \$100,000 to \$1,000,000 or not cheap, indeed. But, as the same experts are quick to ask how march does it

cost to recover from a large

scale disaster whether it he

Resed prominations

criminal extortion or a Catgory 5 harricane? Not that it's necessary to go full-bore in order to implement significant security measures. However, very few companies go beyond the level of developing simple access lists, and very few are currently encrypting their internal

disk systems, even though it's internal abuses and attacks, not external ones, that cause the most damage. So, how to get started? The first thing to do is figure out whether you

thing to do is figure out whether you want to run your security show inhouse or farm it out to a managed services provider.

Typically, the largest corporations

with the most internal IT talent are the most likely to retain this key function along with control of their businesscritical data, while midsize firms are increasingly seeing the value of outsourcing. It takes a big leap of faith to entrust your most important data to a third-norty firm, but more and more businesses are doing it.

The next step is developing a security plan based on a comprehensive review and classification of data.

Where is it? Which data is confidential?

What policies are in place to protect it? And how easy is it to monitor and enforce them? The best way to protect your most sensitive data may be to wall it off in data repositories or on servers. It was not provided to the provided of the provided of the provided provided to the provided provided to the provided pro

that are inaccessor on not use the trusted authorized personnet. Which brings up the stickly issue of access. In some organizations, IT infrastructures have grown so out of control for so long that nobody really knows who has access and at what levels, which opens up the disturbing possibility of sysadmins reading reccutive-level — mails. Even in tightsecurity IT shops, the fact is that sysdamins resultine this blevel access to do

anims require negarieves access to do
their jobs.
Once a security plan is hammered
out and access control becomes more
clear-cut, it comes down to a matter of
trust. You put your best people in place
and trust them to mannare your sys-

tens— it's as simple as that.

So, how will this kind of security
plan protect potential cyberextortion
victims? For starters, it enables these
firms to make it known to the world
that they've spared no effort in developing the strongest possible security.

infrastructure.
Hackers are like a lot of people: They take the path of least resistance. So if they know some company has turned itself into an airtight security fortress, they're less likely to empage it through

hostile acts.

Aside from that, cutting-edge security technology is tough to circumvent. It only makes sense that the more judiciously you deploy it, the safer you'll be.

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MANAGEMENT

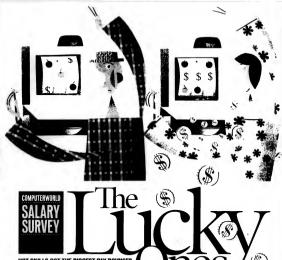
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HOT SKILLS OOT THE BROOEST PAY BOUNCES IN 2008, AS COMPANIES PREPARED TO FRONT POR KEY TALENT. By Stacy Collect



11.13.06



HOT SKILLS GOT THE BIGGEST PAY BOUNCES IN 2006, AS COMPANIES PREPARED TO FIGHT FOR KEY TALENT. By Stacy Collett

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BONUS INCREASES BY JOB LEVEL CEMIND MANAGEDS 6 10 .

2006 BONUS CHANGE OF PROM ONE YEAR AGO?

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OVERALL HOW SATISFIED ARE YOU WITH YOUR CURRENT JOB? Notes



HOW DOES YOUR LEVEL OF SATISFACTION COMPARE



OPP WAR ADD 47%

2006 AVERAGE CHANGE IN SALARY ACROSS THE BOARD

SALARY INCREASES

SENIOR MANAGERS

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MIDDLE MANAGERS

30.

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HOW HAS YOUR 2006 DACE CALADY FROM ONE YEAR AGO?

72%

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Storage architect/

TITLES THAT SAW OWER-THAN-AVERAGE GAINS IN TOTAL COMPENSATION

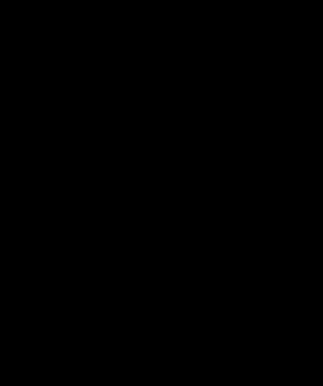
E-commerce specialist E-commerce manager Technician Network manager

Technical trainer

Is your salary on par with what your peers are making? Use our Smart Salary Tool to are your pay with that of [] s in similar jobs around

ONLINE EXCLUSIVE

the country. Our 2006 survey on the salaries of nearly IT needessannals: www.



poard saw their pay increase an averones with the hortest skills saw abovemerces raises according to Commet-

average raises, according to Comput-

which studied the compensation and

bonuses of M 740 FT workers. Network architects like York received mercen

nay increases of \$.3%. Web developers

e-commerce saw jumps of 4% or more. Compensation watchdoes say these

IT neck stars have catabulted to popularity because of consumer demand. The dominant business model is now Web-based That's what it's all about."

wer-tused. I have what it is all about search officer at Foote Partners LLC in N-Conser Come Contempor on distrating the way they want to interact some the natural with the worder They're willing to define the relation.

ship in part by how secure it is and how early it is to do business with them If I'm purchasing from a Web site and the site is too slow. I'm off of it." On the adversage ride the need to comply with the Sarbanes-Ovley Act and other regulations drove demand for Web skills to the may before the compliance deadlines last spring. Now these same companies have returned Continued on page 44

Internet managers and directors of

re voer her to nee TOKK BIS D constructed bis lab As a notwork sechi. As a network aren-

formation Calabian iormación soutcon sew his salary imms 9% this was also and the same y jump 5 of the year, pr commany raised his new to count that of his counterparts at the California of his counterparts at the Cattornia network architect" for the company York says of his specialized skills. ork says of his specialized skills. THE S HOLE COMY ONE WHAT TEASON board our their pay increase an our

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SALARY INCREASES BY JOB LEVE!

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HOW HAS YOUR 2006 BASE SALARY CHANGED FROM ONE YEAR AGO?

DAY BOY



AVERAGE INCREASE	6%
AMERICA DECREASE	70%

RONLISES

BOHRIS INCREASES BY JOB LEVEL				
SENIOR MANABERS BASE 2.06	6.1%			
MIDDLE MANAGERS BASE 4.300	2.1%			
IT STAFFERS BASE 8,006	0.5%			

W HAS YOUR EXPECTED 006 BONUS CHANGED BOM ONE YEAR AGO?



AVERAGE INCREASE	32%	
AVERAGE DECREASE	38%	

BIGGEST WINNERS

TITLES THAT SAW BHER-THAN-AVERAGE GAI IN TOTAL COMPENSATION 5.3% 4.00

BIGGEST LOSERS

LOWER-THAN-AVERAGE GAINS IN TOTAL COMPENSATION			
-commerce specialist	1,7%		
commerce manager	1.2%		
Technician	1.3%		
Setwork manager	1.0%		

SATISFACTION



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OVERALL, HOW SATISFIED ARE YOU WITH YOUR









IS YOUR BUSIN<mark>ESS TRAPPED UNDER THE WEIGHT</mark> OF A BLOATED, **BUREAUCRATIC GLOBAL IP PROVIDER?**

THERE IS AN ALTERNATIVE

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THE HEART OF THE MATTER WHAT MATTERS MOST TO

WHERE DO YOU EXPECT TO BE IN YOUR CAREER

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THE TOP SEVEN CHALLENGES FACING WORKERS IN THE IT IMPLIESTED TODAY

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JOB SECURITY HOW SECURE DO YOU FEEL IN YOUR CURRENT POSITION?



-HOW SECURE DO YOU FEEL COMPARED WITH ONE YEAR AGO?



Not in same position as one war and 4%

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iob hunters, 27% said they're actively searching SMs said they're "somewhat actively" looking, and 20% said they're not very actively hunting for new work. Three quarters of resp said they wanted better pay.

Here's another sign that employers are reacting to a tightening labor pool Robert Half Technology shows that average starting salaries are expected to climb 3% this year, with greater increases for positions like IT auditor (II.2%), lead application developer (5.3%) and network security administrator (5.2%). Indeed, dark clouds are looming over employers of people with these specialized skills.

We have beadhunters calling all the Continued on page 46

NETWORK ARCHI-TECT IFOR THE COMPANY YORK, EXPLAINING THE 15% THAT BROUGHT HIM UP TO PA METWORK ARCHITECTS AT EX-MET MUNICIPALITY OF A PROPERTY OF

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Continued from none 42

to enhancing Web-based products and services. Foote says. Donnie Beford a network techitory at Integris Health Inc. in Oklahoma City has seen his personal stock rise as more IT projects involve the Web "All of our projects right now are tied into electronic medical records and physi-

cian order entry systems," he says. Squaring Up

At raise time, Jennifer, a wireless network engineer at a hospital system in Florida, knew what her skills were worth. Unfortunately, her employer didn't. So she balked when the hospital offered her a 3% pay increase this year. "Some executives) don't understand what an impact wireless has in the

enterprise " save lengifer who saked that her full name not be used. She has three years' experience managing a 100-access noint wireless infrastructurn and has earned Circo Sustante Inc's CCNP and CCIE certifications.

"I'm in charge of their entire wireless network, and it's growing faster than [the current infrastructure] can nosubly accommodate," she says, "I'm trying to get them to understand the value of what I do. I really don't think

that they get it." Executives eventually saw the light and gave lennifer a 7.75% raise, "But I'm still a little underpaid," she adds. - other wireless network engineers

In fact Jennifer is one of the backy ones and network engineers in this year's survey received nay raises that were a

his lower than average at jost 2.7%. Overall, Computerworld's Salary Survey and other studies point to a firming labor market. Some 48% of IT executives who responded to Computerworld's second-quarter Vital Signs Survey said they found it more difficult to permit key IT talent than they did at the same time last year. Sixteen percent of the respondents to this year's Salary Survey said they expect to be in a similar job but at a different company within the next five years, and nearly

half (47%) reported that they're actively or passively looking for another job Gimilarly, according to an August 2006 online survey of 1,000 IT workers by the Competing Technology Index. try Association, 60% of IT profession als are hunting for a new job. Of those





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and for us to compete. skills. "There have always been talent to the increase the table. That has never shares in specific jobs. That has never now Jon north number level." Foote and for those in demand skills com manuscan a illumentaria Saliilla roomi. ums" in the form of stemme bonuses or respection houses Comparamenta and spring 25-to

Il's over base pay, according to Foote Parriers research, Certified Web-Solumentalish committee 125, to 136, in honon now CWNDs include continuations form 10 may 2 Wanday Inc. con your employees 8% to 12% more. Circu certife ution is in its month index LAN La con amarialist teamble to a 76-to ing a jet the private octor for a undito be a bush on our bind of constitutional also found that skills promising were skills. "If I resin my nearly then I'm at similar for both certified and noncertirick of locing (them) to bisher calution fied employees in these areas. in the private sector," he says.

20 Turbulent Years

But all this extra pay could wreak That one this problems for public sector IT departments that can't pay extra for special skills. All IT workers or the California Department of Techmolecus Services out a 2 %, non rame this year but Internet services manuor David Ried has aband time compet-

have up a company's compensation mentioner Front a rame "What there're Joing now is the worst of all worlds. IT is aswine. The major to give this nerson own risks there is not and honors the LID Jenuttment's compensation midelines for the requiring "That's mosey " he conc. has seen it consists constint to it nay scules down the road. The heat way to conture condidates with bot skills is to gay extra through

a signing bonus or a netention busine. Foote recommends, "and give them an informal job title that will differentiate labor members of horses or may had investigate skill is more valuable than others."

Collett is a Consputerworld contribution Control is a Company world control and

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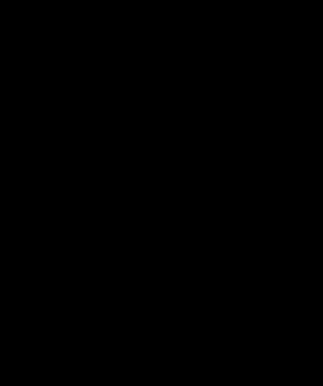
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Continued from page 44 time* for IT workers with network and Web skills Buford over Englandely for Integris, he is happy to stay out for now.

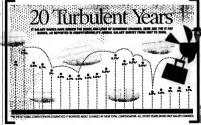
But other communies aren't or bucky

On the Market

Job hopping, a career strategy that showing signs of a complete Market Showing signs of a comenack, Martinew trator at the University of Houston, has already seen private-sector companies neach employees with Web skills from his staff. The 12-nerson Web technologies group has lost two people "just because they can make more elevahere." Castilla some *Feannially in a state institution where salaries are fixed it's hand for us to commete "

Easts calls it a battle for especialized -bill- FTh--- base absent have talent ware in specific jobs. That has never shapped. The difference today is it's now down to this niche level * Foote arms For these in demand skills, companies are willing to our "riville premiums" in the form of signing bonuses or retention becauses

Cas programmers are earning 7% to 17% over base pay, according to Foote Partners research Certified Web-Sobore skills can nob 12% to 18% in hou nus pay, CWNP wireless certifications from Planet 3 Wireless Inc. can earn amplement 8% to 12% more Cisco certification as an advanced wireless I AN design specialist translates to a 7% to IP% increase in salary. Foote's study also found that skills premiums were similar for both corriford and monocorti-



That creates problems for publicsector IT departments that can't now extra for special skills. All IT workers at the California Department of Techpolony Services got a 3.5% pay raise

this wear but Internet services manaror David Pial has a hard time competing with the private sector for candidates who have any kind of specialized skills. "If I train my people, then I'm at sick of losing Itham) to higher exterior in the private sector," he says.

But all this extra nay could wreak havor on a company's compensation practices. Foote warns, "What they're doing now is the worst of all worlds. IT is saving. I'm going to give this person any title they want and is nore the HR department's compensation suidelines for that position." That's messy." he says, because it creates overinflated pay scales down the road. The best way to centure candidates

with hot skills is to pay extra through

informal ich title that will differentiate Collett is a Computerworld contributing writer Contact her at strollettibaal.com

[the employee] because we believe this skill is more valuable than others."

a signing borus or a retention borus.

Easte recommends, "and give them an

COMPENSATION

fied employees in these areas.

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Information Technology Professionals

GENDER GAR-



remains striking, according to Computer-world's 20th annual Salary Survey. A male director of IT males STH,045 on serve age, while a fernial with that title males \$100,445, according to the servey. The pay between me and women widens to enerly \$10,000 with the title of CIO or vice

president of IT.
Acroes the board, total IT compensation
averaged 391,464 for men and 380,781 for
women. Those figures are similar to those
from the U.S. Bureau of Labor Statistics,
which reported that in 2005, women's



marns with only a first initial. But when my get me on the phone, I can't exactly de that I'm a female " she save

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that I'm a ternase," one says, un, a manager of internet services at a most connectation who also asked that

profit organization who also asked that full name not be used, knows the 'a pold is than the meen in her group. "There's babby a \$15,000 difference" in pay, earys. "But at this point, I'd be crazy to we. I'm toe close to retirement." slocallo offers those words of advice: "If

s-transet advancements and the people shows bish credibility " many of whom upper to se men. If these storoctypes aren't eliminated, incells cardious that ACSs of women will

- STACY COLLETT

the Numbers

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FEMALE IT MORNERS

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OF THOSE WHO WOULD, HERE ARE THE

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Commitment Phobia

ourtship and marriage the second time around are different from first relationships. The period of adjustment after divorce demands introspection, and survivore tenically omenae with new ideas about sk-markon atkan and the nature of relationships

The specific challenge for those contemplating second marrisses is making the decision to commit again. Oddly enough, the numbure from Commutational Ps. 2006 Salary Survey lead the Inthink that IT workers and cornorate America are in a similar situation. There're to cing with the idea of committing again after being burned once. They seem to recognize that they need one another. but they green's cortain that they're ready to trust again. IT workers four they'll be tossed out with the next economic dip, and their emplayers fear that an expensive talent war may be on the horizon.

- received and the throws of mour commitment places. I'm not morns to assume at their it savins a rather untence especially during non-Investo Lorgania ends acur the era es inflation seems List 1 S Judetal Re who has everstopped

Everyone involved

Lassas the economic cauricalent of as notion in Paris B workers and it in that salary numbers. Despite

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So in this environment, compames commit only in special cases. as certime the new courts of captur-Ing rare talent. And even then, they wants the long-term pension liabilities of GM or Limited Air Lines. In me with the consequences of promises that much be impossible

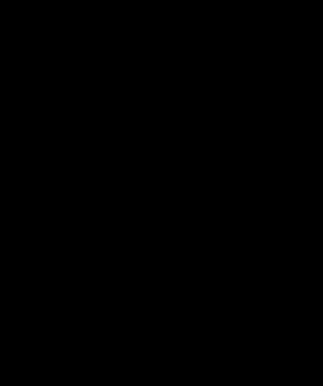
And residence on toward buildings in the grand missions of their corresrations. They dismiss with an ever nall the objections at thement that "nearle are our most important aspeople are the most important asthe same till a known how a second over the part formant

Managers are expected to have one eve on the income statement and the other on the stock price. Exemples one have one one on their and and the other mark the balance work and the other on the near left Con and and ar

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MONEY TRUMPS ALL

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MOTE: MINTER E DESPONSES ALLOWED 43% SAID THEY WOULDN'T CONSIDER SWITCHING TO A JOB WITH LOWER COMPENSATION.

OF THOSE WHO WOULD, HERE ARE THE TOP FIVE FINTICEMENTS:

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DAIL OF EM

Commitment

urtship and marriage the second time around are different from first relationships. The period of adent ofter discourse demands introspection and previous typically emerge with new ideas shour themselves others and the nature of relationships The specific challenge for those contemplating second mar-riages is making the decision to commit again. Oddly enough, the numbers from Commuterworld's 2006 Salary Survey lead me to think that IT workers and corporate America are in a similar situation. They're toying with the idea of committing again after being burned once They seem to recognize that they need one another. but they aren't certain that they're ready to trust again, IT workers fear they il be tossed out with the next economic din and their employers fear that an expensive talent war may be on the horizon

Everyone involved seems to be in the throws of major commirment phobie Pm not sping to suggest that there aren't good rea-sons on both sides, but it seems a rather un. fortunate state of exis tence, especially during by such a good business climate. Corporate profits are up. The

ck market has rise to prebust levels, and despite spiking energy prices, inflation seems penerally under control The U.S. Federal Reserve has even stonged

raising interest rates (for now). This is the economic equivalent of springtime in Paris. If workers and gers can't learn to trust again here and now, will they ever?

A few key findings from this year's survey fill out the picture

that I see every day in my travels as a consultant. First, consider th near-flat salary numbers. Despite

egaprofits in sos strings are still being held tightly. Second, and more ortent the in use of one-time

such as signing bon and annual bonuses, to salary are signs of m to ove ffers saving that they are possively, if not actively, looking for new jobs, signals that this isn't just a one-

ided fear So in this cay nies commit only in special cases. accepting the necessity of capturing rare taient. And even then, they don't want to overpromise. No one wants the long-term pension li-abilities of GM or United Air Lines. ring with the consequences of conises that might be impossil

And staffers no longer believe the grand missions of their corporations. They dismiss with an ey-roll the ubleations statement that roll the unsquarous statement use "people are our most important a set." No one treats their most val able assets like they've been trea over the past five years.

Managers are expected to have one eye on the income statement and the other on the stock price. and the other on the stock price. Employees have one eye on their work and the other on the help-wanted ads. There are no eyes left Grand ather

Perhaps I'm just pining for son thing that never was or never he work was more exciting and fun when employers and employe believed in something more than unvarnished self-interest.

unvarnished self-interest.

Will we dare to trust again? Stay
tuned. Despite fears of being more
vulnerable, both sides know that
amazing creativity and productivity
happen only when there's at least
a hint of that old-fashioned loyalty - and trust a

COMPANIES IN SPECIAL CASES, ACCEPTING THE MECESSITY OF CAPTURING RARE TAL-ENT. AND EVEN THEN. THEY DON'T WANT TO OVERPROMISE. NO ONE WANTS THE LONG-TERM PENSION LIABILITIES OF OM OR

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By the Numbers

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Q:00am to Noon

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0.00------9:20am to 9:40am

Designation and Naturation Resident ction and Overview

8:40am to 9:20am

Don Milton Execution Man Drawlant Commutenessed

Market Overview and Trends Michael Hugos, Former CIO and Author of Essentials of Supply Chein Menagement and Building the Real Time Enterprise:

9:20am to 10:00am

Application Performance at Broadcom Corporation: Ken Venner Senor Vice President and Chief Information Officer Broadcom Corneration

10:00am to 10:15am Refreshment and Networking Breek 10:15am to 10:50am Application Performance Assurance Case Studies:

It Pays to be Predictable Andrew Millio Man President Ounlife Assurance Solutions Community

11:25am to Noon

10:50am to 11:25am Application Performance: An End-Liser Case Study Kenneth Speller Director of Quality Assurance Chicago Board of Trade

> Moderator: Ron Milton, Executive Vice President, Computerworld Panelists: Michael Hugos, Former CIO and Author of Essentials of Sunol Chain Management and Building the Real Time Enterprise: An Executive Briefing, Andrew Hittle, Vice President, Quality Assurance Solutions, Compuware: Ken Venner, Senior Vice President and Chief Information Officer, Broadcom Corporation; Kenneth Speller, Director of Quality
> Assurance, Chicago Board of Trade

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The soul base for this job life in this purious reducing or company size was been than 30 responses but more

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By the Numbers	
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COMPUTERWORLD **SURVEY** 2006

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WHICH ONE OF THE WHICH ONE OF THE WOUR HOD ACADOM CTATING



TOP FIVE REASONS THEY'RE E NEASUNS THE

Leoking for higher compensation Career opportunities

Seeking more interesting

Looking for more personal Seekson more responsibility

TOP FIVE REASONS THEY AREN T : DOK NO FOR A JOR

Satribed with current

Satisfied with repried Satrified with company culture

Job market is poor? law concertuations

A Slow Thaw

THE VEAR REceleration that the economy has changed Commutations of the Salary Survey shows that Consuments are assisted their rate decline. Some are next people are seeing their pay occarite. Some are that The freeze lab market is starting to mult giving less advantage to employers and more to employees

So what does that mean for both sides? Look at the numbers: 47% of all the IT workers who responded to the survey said that there're either actively or receively looking for another ich. That could exert a hose movement in jobs in the industry in the coming year or as And 70% of those inhouseking respondance and had into for more representability. That's a his number Domandar the cost of replacing an appleton can be as much to the employee's values for one year. At a minimum, it's a few months of his salary.

Marrager bands ome from the interest managina of the other han m with their response holies - Marcal Astronomics if there's a team to make the work more redatable or even change people's negonabilities Lorenton one horse's tion advice Talk to your man user them we not realize you're unlarges. especially it he's workone in crisis made and

hand been up with own one on one meetings. Another factor in retention is salary and mark ancionament satisfaction: 22% of all

numerators and then men't estimated, such to take their place with their commensation and 425 of authoritation, and foodcass for many interesting and challenging work I say next these two mendated for man people. An interesting work em ironment is a combination of what nearly can disease, box people are treated it's even more important for managora to compador bon to out thlish a positive work culture and contracti-

rive reward system. Some of the most important things are free - meaning they

one-on-ones, and building a true time red at long. ship costs not have but time. Compared with the cost of replacing in employee, it's cheap, That ead money will talle. He wheel more

chools at the data we see that a stancer ing tells, of the poorle hanking for new subs are looking for more money. It's not 1999. sur but nanuabur bibu boomers are scarting to roting and there are fewer trained people

And cost money not

that there has been some war time Spending

time u ith amphassa in

Managers if you think you need more nearly start being concerned about where the new folks are ouing to come from And start not intoing your salary data. Commany what con nor to what others not in your area for similar jobs. You may be unpleasantly surprised.

If you are looking to him people. remember you're offering a career opportunity, not a job. That's enod. because that's what people want. They want more interesting and challenging work.

Construction from the second continue from court organ does not That's OK have proup the contract time conon your case to produce more with the court operation of a contra Consider montion to cross

for should be now proved all course for it is not some of contracted to an formed on one fortune or wen Land and of Contract of the second and group or reasons over a people learn new owes. And all team mem-Ratin new ones, and an team me that part of the product

And amplitude if a substantial that survey and found that your salary is not an and into our to those of course more, take this advice Research what your position rose in a pariety of industries and separathical locations and reason your accumulabments over the rost year so you can

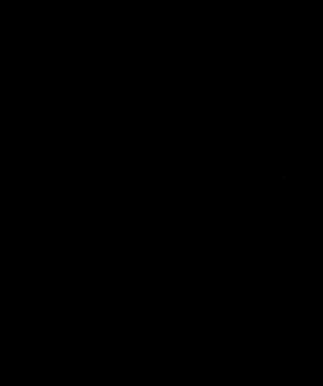
of the small incomment of the It's not a job hunter's market - at lease not yet. But if you look at the reends from 2005 to 2006 it's clear that empleyees feel better about

sout increase into and aren't afreid to start looking any more Manager remember that nation. tion is your single best recruitment strategy. Build relationships with

your team, and consider how you com conceta posses challenges at work Employees remember that your manage is only burgan Hawa a talk with your manager and explain when you want out of work. You might be

surprised to discover that you can find it at come current amplimer And if you've decided to look for a new job - bave a blast! There are apportunities out there if you're willing to learn new things. ..





Bythe Jumbers



ON THE LOOKOUT

WHICH ONE OF THE OLLOWING BEST DESCRIBES YOUR JOR SEARCH STATUS?



Seeking a new job within the same company

TOP FIVE REASONS THEY'RE LOOKING FOR A JOB: ine for higher compensation 63%

43% A104

TOP FIVE REASONS THEY

PERT LOOKING FOR A JOR-

50% 21%

JOHANNA POTHMAN

A Slow Thaw

WILL VEAR it's clear that the economy has changed Communication 2006 Salary Survey shows that fewer people are seeing their pay decline. Some are setting raises. The overall change in base salary is flat The freeze ich market is starting to melt giving less advantage to employers and more to employees So what does that mean for both sides? Look at the min

50 was uses that mean for both sures slow in the numbers 47% of all the IT workers who responded to the survey said that they're either actively or passively looking for another job. That could create a huse movement in jobs in the industry in the coming year or so. And 29% of those job-seeking respon the coming year or so. And 27% or those pot-seeking respon-dents are looking for more responsibility. That's a big number. Remember, the cost of replacing an employee can be as much as the employee's salary for one year. At a minimum, it's a few months of his select

Managers, here's some free advice: Ask your staff in one-on-or meetings if they're he ov with their respons lities. If not, deter if there's a way to mai the work more palatable. or even change people's remonsibilities.

dovees, here's your advice: Talk to your neer. He may not realize you're unhappy. especially if he's work houn't bent un with war Another factor in

retention is salary and stisfaction: 22% of all

with their compensation, and 43% of sh seekers are looking for more in-resting and challenging work. I susg and challenging work. I sus-ese two are related for many people. An interesting work environ-ment is a combination of what people can discuss, how people are treated and what's rewarded. This means it's even more important for mans ers to consider how to establish a

ortant ne they



don't cost money, not that they don't require your time. Spending time with employees in ime with employees in one-on-ones and build-ng a trusting relation-ship costs nothing but hip costs nothi e. Compared with employee, it's cheap.

That said, money sti
talks, if we look more

closely at the data. was one that a starre ng 63% of the people poking for new jobs are looking for mo money. It's not 1999 et, but remember, baby comers are starting to retire, and there are fewer trained people

fewer trained people ready to take their place. Managers, if you think you need more people, start being concernes about where the new folks are go-ing to come from. And start review ing your salary data. Compare what you pay to what others pay in your area for similar jobs. You may be

npleasantly surprised. If you are looking to hire peop enember you're offering a care mity, not a job. That's good at's what people w

your group does work. The OF sur group does work. I had a Osc. on your case to produce more with the same number of people.

Consider moving to cross-functional, feature-oriented to for at least some of your product development. A cross-functional team focused on one feature or a re-lated group of features offers people a chance to expand their skills and learn new ones. And all team me

bers become more familiar with that part of the product. And employees, if you've read the isn't stacking up to those of your opers, take this advice: Research

peers, take this advice: Research what your position pays in a variety of industries and geographical loca-tions and review your accomplishments over the past year so you can start making your case. It's not a job hunter's market - at

least not yet. But if you look at the trends from 2005 to 2006, it's clear that employees feel better shout seeking new jobs and aren't afraid to start looking anymore.

Managers, remember that retenstrategy. Build relationships with your team, and consider how you

your team, and consider how you can create more challenges at work Employees, remember that your manager is only human. Have a talk with your manager and explain who you want out of work. You might be surprised to discover that you can find it at your current employer.

And if you've decided to look for a new job -- have a blast! There are opportunities out there if you're willing to learn new things. 9



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Data Security

mation security at IM Camilla Enterprises Inc. on outo distric Emerprises Inc., an auto distri transcending and managery company annual program of \$9.4 billion

Monnobile information of all seeds assets to be protected an sorts needs to be processed existence or activate used said Ceraolo. That requires an incurity measures such as done resembleation and encryption. end-user access and authenticarion and usage monitoring and sudition he added

Blocking and Tackling At Carlord Entertainment

Co. most of the "blocking and trabliant that was seeded to address network threats has almosts been accomplished aiready been accompassed, IT security and compliance at the Nashville-based hospital. ity company. Now the goal is to put multilayered defenses arrand data as well be said "We're layering technology controls to make sure we can

identify where the information is passing across our network," Burnett said. The driving force behind the data protection effort and the company's overall IT security program is "reputation management," he noted. "We've worked hard to build the Gaylord brand." Burnett sold "Any one incident could ruin all that work "

Also contributing to the stronger focus on data secu rity is the need for Garland to comply with regulations such as the Sarbones-Oxiev Act and the Payment Card Industry security standard, which was established by the major credit card companies. "We absolutely recognize the need to protect sensitive information and are working hard to fulfill that obligation," Burnett said. Ann Garrett, chief informa-

tion security officer at the

Numb Carolina Office of Infor-North Carolina Office of Info mation Technology Services state law that coveres the use of mesopolis identifiable information is elevating the need for encurity controls at the data local The law ment into officer for the private sector on On the different metric of to state mencies pert October

Month Carolina's conserva-North Caronna's government has a strong network sweeps and intravior-presention system," said Correct What's lacking she added. sea controls for mitigation are controls to integrating

user errors a As a result, there's an in-As a result, there's an in-Creased social within the Cr widing the shility to log and undir more respections. The hudit user transactions, 'We

ment of Veterana Affairs eatment of veterans Analys earan intense scrutiny of days so. curity practices, according to Duratel House CICO of the Department of Housing and Urban Development Howard said during a

Ma milled back the sheet and discourand there is a lot to do Ito protect nersonal data

The date DOM matters ahove everything else

sudirability " Garrett said Within the federal property such as the one at the Denore.

nenel discussion at last week's the White House Office of Management and Budget and HUD's inspector general "are looking over our shoulders abasaha" on data security In July HUD disclosed the it had lost a backup disk con teleine sensitive information - 277 plowers "We rulled back the

about and discounted there is a het to do" to protect personal

date the most said its, rioward said. avenues to how an impleme tables also is also for ad dressing the security issues it has identified thus for Howard and the planted management said the parimed measures factor authentication of warr and along manitosing of year and coose inscisioning to use timetable for completing the

implementation much Character work. A History and the sale of the and anough harbor to take -Australia of all of them Moward said What's really important he whited other important, he advised other risk-based approach to securine data and understanding that it involves "people, process and technology."

SOI Server Users Slow on 'Serious Untake' of New DR

force them to do that

---rein Killen is president of the Professional Association for SOIL Server (PASS) on indeendent group for users of Microsoft Corn's Rayshin datahave PASS is holding

its annual conference in Seattle this week, and about 2,500 people are expected to attend acconfine to Pline who works as technical strateary manager for SOI Conver products at Owen Software Inc. Kline snoke with Comm mored last week about irrust

such as how PASS members feet about SOIL Servey 2005 a year other its lawach ner transmit maner floor sass on Windows Viola, in fact,

of SQL Server prior to the 2005 Viota more will need to oppose to Service Park 2 of SSE Ser 2005. Are users feeling pressured to corredo? I think it is an issue. On bearing some grumbling about it, and it might acto all a slow down the education

code With 2005 new features reded to 201 Secret like deschase mirroring or par-20057 There are many shops with one or run in code instances of SQL Server 2005 running, I don't consider that a strong commitment. Most SOL

Server DRAs support a dozen instances of the database or more. So in measuring serious untake - that is DBAs who have half or more of their boxes frunning) SQL Serve 2005 - Pd say it's about 20%

What features are overs still looking for Microsoft to add? There is a widespread desire for better tools. SQL Server 2005 (includes) a whole new intenface called SOL Server Man-

of Vista itself People are tellrement Studio. In some ways. ing me they don't want to give it's a sten back. There are a lot up their existing database just of new and next features but for a new operating system. you hear a lot of complaints There's not enough in Vista to shout what it doesn't do. For example SOT Server made its name going back to Version 7.0 with its GI II and not forcing DRAs to learn all of this SO

> titioning have to be addressed Visual Studio has lone had a feature called Intelligence which is like an ento-complete feature in Word, SQL Server users have been begging for comething similar for cons. It was in the betas for Manag

ment Studio at one point, but Microsoft pulled it out. Compliance is another have issue. In the old days. people needed to know who

crosoft for an answer.

were und no het in klauser 2008 op Computerweiser. Alle met 2008 op 2008 Will Window Order Considere disperiere Pleasing in personale in gleichnige fan derend it personale anderend a

had changed data, Now, many shops need to know who has looked at data. That capability is hard to build in without building in a lot of overhead. But people are looking to Mi-

There is also pain around change management. That isn't a big deal if you're an Oracle DRA with just one or two servers, but if you're a COT Server DBA with 74 cersers to perch, it can be a real noin in the year Right now the answers mostly come from ather Misses of products like Systems Management Server But that doesn't moothe a lot of DBAs, because they don't necessarily want to hand this listual off to another team

SP2 of SRI Server 2005 early next war, it ties in with colle ration business, especially in Office. What impact will there be on 201, Server DBAs? After

a certain point, adding an-other spell checker or template doesn't change Office much. But SOI. Server's tie-ins with SharePoint and Excel will belo people make more sense of data and turn it into action shle information Most DRAs are still assessing [SP2]. They don't know what will work and how much is point to be

involved for them.

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IT's Bitter Pill

AY you walk into work on Monday morning to find a lengthy e-mail message. It's from a project supervisor. It's addressed to everyone in the company. It says a hugely expensive. mission-critical application is a failure that won't scale, is regularly down and is likely to cost lots of money and maybe

even lives. And the message appears to back up those claims with financial technical and historical detail (see story page 6). If you're a CIO, it's the sort of thing that probably gives you a sick

feeling in the pit of your stomach. If you work at Kaiser Permanente it's what happened last week

And if works the CIO at the not-for-profit health care giant, as Cliffond Dodd was last Mon-

des it's the probade to your departure Dodd resigned the next day Wait, it gets uglier. The Kaiser e-mail message didn't just claim that Kaiser's electronic medical

records system, HealthConnect, was a \$3 billion failure It also claimed that Dodd was a director for the common that had collected a \$1 million. consulting fee for recommending the product HealthConnect is based on. And it claimed that Kaiser CFO George

Mahaman had nesselected the HealthConnect technology had ignored an internal Kaiser engineering analysis that accurately predicted it wouldn't work at a health care organization the eign of Kalear and had run into similar problems with the same technology at his previous job as CEO of a smaller health plan in Minnesota. where the state attorney general eventually is-

sued a report blaming Halvorson for high-level financial waste and abuse Is all this true? We don't know for sure. Halvorson insists the project supervisor 25-yearold lusten Deal, has strung together facts but has the story wrone Knicer spokesmen say Dodd's departure had no connection

with Deal's comail But we do know that Deal spent fruitless months oning through channels - exchanging letters with Kaiser's chief compliance officer, members of Kaiser's board. Kaiser lawwers and California government officials - before sending his message to 180,000 Kaiser employees last week. Deal has published those letters and responses on a Web site.

Deal is now on administrative leave Dodd is some Halvorson is working to limit the PR damage.

Yes it's a moss. How it will play out in the

marks and months to some someins unknown But here's comething to think shout comething more than a little worrisome: Halvorson, Dodd and Deal are supposed to be exactly the kind of people that IT is pinning its future on. Home's a technique CEO who takes an action

interest in major IT projects, who in fact believes that IT is less to business transformation Here's a CIO who's a trusted adviser to the CEO one who can deal with both technical and

husiness barriers to a major project's success. And here's a unune appreciate business savve IT worker who sees the big picture, understands corporate politics and isn't afraid to look beyond

his cubicle walls to get things done How many times have you beard number (yes me too) tell you that we need CEOs. CIOs and IT staffers like these) That without them IT can't gain the insight and the clout it needs to use technology for solving business problems? That these are the people who can wring real business

value from IT2 Instead, these people have brought Kaiser what appear to be sweetheart deals, cover-ups and damaging publicity - and that's without

vet knowing whether a failed electronic health records system really has caused Kaiser serious financial losses and not nationts at risk For the record, I still believe IT

needs people with these qualities. Not these people, maybe, and certainly not these results. Still, techsavvy CEOs, tight-with-the-boss CIOs and business-smart IT people

are the future of IT. But if you think they're the prescription that will cure all your IT ills, think again. At Kaiser, at least,

they've turned out to be a very bitter nill to swallow t



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